SHARP SERVICE MANUAL

No. S81T252LE830E



LCD COLOUR TELEVISION

LC-52/60LE830E/RU
LC-52/60LE831E/S
MODELS LC-52/60LE833E

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

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Parts Guide

Parts marked with " ⚠ " are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

SHARP CORPORATION

This document has been published to be used for after sales service only.
The contents are subject to change without notice.

SAFETY PRECAUTION

IMPORTANT SERVICE SAFETY PRECAUTION

■ **Service work should be performed only by qualified service technicians who are thoroughly familiar with all safety checks and the servicing guidelines which follow:**

■ WARNING

1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC power before servicing.

CAUTION:
FOR CONTINUED PROTECTION AGAINST A RISK OF FIRE REPLACE ONLY WITH SAME TYPE FUSE.

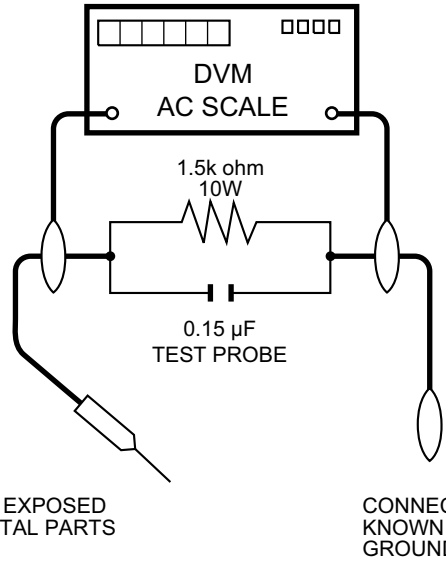
F7001 (5A/250V)

■ BEFORE RETURNING THE RECEIVER (Fire & Shock Hazard)

Before returning the receiver to the user, perform the following safety checks:

3. Inspect all lead dress to make certain that leads are not pinched, and check that hardware is not lodged between the chassis and other metal parts in the receiver.
4. Inspect all protective devices such as non-metallic control knobs, insulation materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacitor networks, mechanical insulators, etc.
5. To be sure that no shock hazard exists, check for leakage current in the following manner.

- Plug the AC cord directly into a 220~240 volt AC outlet.
- Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15μF capacitor in series with all exposed metal cabinet parts and a known earth ground, such as electrical conduit or electrical ground connected to an earth ground.
- Use an AC voltmeter having with 5000 ohm per volt, or higher, sensitivity or measure the AC voltage drop across the resistor.
- Connect the resistor connection to all exposed metal parts having a return to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.
 All checks must be repeated with the AC cord plug connection reversed. (If necessary, a nonpolarized adaptor plug must be used only for the purpose of completing these checks.)
 Any reading of 1.05 V peak (this corresponds to 0.7 mA peak AC.) or more is excessive and indicates a potential shock hazard which must be corrected before returning the monitor to the owner.



SAFETY NOTICE

Many electrical and mechanical parts in LCD color television have special safety-related characteristics.

These characteristics are often not evident from visual inspection, nor can protection afforded by them be necessarily increased by using replacement components rated for higher voltage, wattage, etc.

Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such features are identified by "⚠" and shaded areas in the Replacement Parts List and Schematic Diagrams.

For continued protection, replacement parts must be identical to those used in the original circuit.

The use of a substitute replacement parts which do not have the same safety characteristics as the factory recommended replacement parts shown in this service manual, may create shock, fire or other hazards.

Precautions for using lead-free solder

■Employing lead-free solder

- “PWBs” of this model employs lead-free solder. The LF symbol indicates lead-free solder, and is attached on the PWBs and service manuals. The alphabetical character following LF shows the type of lead-free solder.

 Example:



Indicates lead-free solder of tin, silver and copper.



Indicates lead-free solder of tin, silver and copper.

■Using lead-free wire solder

- When fixing the PWB soldered with the lead-free solder, apply lead-free wire solder. Repairing with conventional lead wire solder may cause damage or accident due to cracks.

 As the melting point of lead-free solder (Sn-Ag-Cu) is higher than the lead wire solder by 40 °C, we recommend you to use a dedicated soldering bit, if you are not familiar with how to obtain lead-free wire solder or soldering bit, contact our service station or service branch in your area.

■Soldering

- As the melting point of lead-free solder (Sn-Ag-Cu) is about 220 °C which is higher than the conventional lead solder by 40 °C, and as it has poor solder wettability, you may be apt to keep the soldering bit in contact with the PWB for extended period of time. However, Since the land may be peeled off or the maximum heat-resistance temperature of parts may be exceeded, remove the bit from the PWB as soon as you confirm the steady soldering condition.

 Lead-free solder contains more tin, and the end of the soldering bit may be easily corroded. Make sure to turn on and off the power of the bit as required.

 If a different type of solder stays on the tip of the soldering bit, it is alloyed with lead-free solder. Clean the bit after every use of it.

 When the tip of the soldering bit is blackened during use, file it with steel wool or fine sandpaper.

- Be careful when replacing parts with polarity indication on the PWB silk.

Lead-free wire solder for servicing

Part No.	★	Description	Code
ZHNDAi123250E	J	ϕ0.3mm 250g (1roll)	BL
ZHNDAi126500E	J	ϕ0.6mm 500g (1roll)	BK
ZHNDAi12801KE	J	ϕ1.0mm 1kg (1roll)	BM

End of life disposal



Attention: Your product is marked with this symbol. It means that used electrical and electronic products should not be mixed with general household waste. There is a separate collection system for these products.

A. Information on Disposal for Users (private households)

1. In the European Union

Attention: If you want to dispose of this equipment, please do not use the ordinary dust bin!

Used electrical and electronic equipment must be treated separately and in accordance with legislation that requires proper treatment, recovery and recycling of used electrical and electronic equipment.
Following the implementation by member states, private households within the EU states may return their used electrical and electronic equipment to designated collection facilities free of charge*. In some countries* your local retailer may also take back your old product free of charge if you purchase a similar new one.
*) Please contact your local authority for further details.

If your used electrical or electronic equipment has batteries or accumulators, please dispose of these separately beforehand according to local requirements.

By disposing of this product correctly you will help ensure that the waste undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health which could otherwise arise due to inappropriate waste handling.

2. In other Countries outside the EU

If you wish to discard this product, please contact your local authorities and ask for the correct method of disposal.

For Switzerland: Used electrical or electronic equipment can be returned free of charge to the dealer, even if you don't purchase a new product. Further collection facilities are listed on the homepage of www.swico.ch or www.sens.ch.

B. Information on Disposal for Business Users

1. In the European Union

If the product is used for business purposes and you want to discard it:

Please contact your SHARP dealer who will inform you about the take-back of the product. You might be charged for the costs arising from take-back and recycling. Small products (and small amounts) might be taken back by your local collection facilities.

For Spain: Please contact the established collection system or your local authority for take-back of your used products.

2. In other Countries outside the EU

If you wish to discard of this product, please contact your local authorities and ask for the correct method of disposal.



For EU: The crossed-out wheeled bin implies that used batteries should not be put to the general household waste! There is a separate collection system for used batteries, to allow proper treatment and recycling in accordance with legislation. Please contact your local authority for details on the collection and recycling schemes.

For Switzerland: The used battery is to be returned to the selling point.

For other non-EU countries: Please contact your local authority for correct method of disposal of the used battery.

OUTLINE

MAJOR SERVICE PARTS

■PWB Unit

Ref No.	Parts No.	Description
N	DKEYDF733FM51	MAIN Unit (LC-52/60LE830E,RU)
N	DKEYDF733FM52	MAIN Unit (LC-52/60LE831E,S)
N	DKEYDF733FM54	MAIN Unit (LC-52/60LE833E)
N	DUNTKF494FM02	R/C OPERATION Unit
N	DUNTKF770FM51	ICON Unit
N	RUNTKA869WJQZ	TOUCH SENSOR Unit
N	RUNTKA819WJQZ	3D IR TRANSMITTER Unit
N	RUNTKA795WJQZ	POWER SUPPLY Unit (LC-52LE830E,RU/831E,S/833E)
N	RUNTKA799WJN1	POWER SUPPLY Unit (LC-60LE830E,RU/831E,S/833E)
N	RUNTK4909TPYX	LCD CONTROL Unit (LC-52LE830E,RU/831E,S/833E)
N	RUNTK4909TPYN	LCD CONTROL Unit (LC-60LE830E,RU/831E,S/833E)

NOTE: (*1) Replace MAIN Unit (DKEYDF733FM**) in case of IC8401 or IC3303 failure.

(*2) TOUCH SENSOR Unit (RUNTKA869WJQZ) reuse will be impossible, once it is stuck on front cabinet and exfoliates.

■OTHER Unit

Ref No.	Parts No.	Description
N	R1LK520D3GW4BY	52" LCD Panel Module Unit (LK520D3GW4BY) (LC-52LE830E,RU/831E,S/833E)
N	R1LK600D3GW4BH	60" LCD Panel Module Unit (LK600D3GW4BH) (LC-60LE830E,RU/831E,S/833E)

■IC For Exclusive Use Of The Service

Ref No.	Parts No.	Description	Q'ty
IC2001	RH-iXD241WJN2Q	IC R5F21368CNFP (Monitor Microcomputer)	1

■Service Jigs

Ref No.	Parts No.	Description	Q'ty
N	QCNW-L795WJQZ	Main Unit to Power Unit (PD)	1
N	QCNW-L798WJQZ	Main Unit to Touch Sensor/IR Transmitter Units (RC)	1
N	QCNW-L796WJQZ	Main Unit to ICON Unit (CI)	1
N	QCNW-K595WJQZ	Main Unit to Speaker (SP)	1
N	QCNW-G405WJQZ	Main Unit to LCD Control Unit (PL)	1
N	QCNW-F676WJQZ	Power Unit to LCD Control Unit (LW)	1
N	QCNW-K597WJQZ	Main Unit to Woofer (SB)	1

CHAPTER 1. SPECIFICATIONS

[1] SPECIFICATIONS (LC-52,60LE830E/RU,831E/S)

Item			LCD COLOUR TV (60"/152 cm), LC-60LE830E LC-60LE830RU LC-60LE831E LC-60LE831S	LCD COLOUR TV (52"/132 cm), LC-52LE830E LC-52LE830RU LC-52LE831E LC-52LE831S
LCD panel			152 cm (60") X-Gen panel	132 cm (52") X-Gen panel
Resolution			1,920 x 1,080 x 4 dots	
Video colour system			PAL/SECAM/NTSC 3.58/NTSC 4.43/PAL 60	
TV function	TV-standard	Analogue	CCIR (B/G, I, D/K, L/L')	
		Digital (830 series)	DVB-T (2K/8K OFDM), DVB-C, DVB-S/S2	
		Digital (831 series)	DVB-T (2K/8K OFDM), DVB-T2 (1K/2K/4K/8K/16K/32K OFDM), DVB-C	
	Receiving channel	VHF/UHF	IR A ch-E69 ch (Digital), E2-E69 ch, F2-F10 ch, I21-I69 ch, IR A-IR J ch	
		CATV	Hyper-band, S1-S41 ch	
		Satellite (830 series only)	950-2150 MHz*1	
	TV-tuning system		Auto Preset 999 ch (non-Nordic [DTV]), Auto Preset 9999 ch (Nordic [DTV]), Auto Preset 99 ch (ATV), Auto Label, Auto Sort, Auto Preset 9999 ch (SAT [830 series only])	
	Stereo/Bilingual		A2/NICAM	
Audio amplifier			10 W x 2 / 15 W x 1	
Speaker			(206 mm x 14 mm) x 2/Ø 100 mm	
Terminals	Antenna	VHF/UHF	75Ω Din type (analogue & digital)	
		Satellite (830 series only)	75Ω F type (DVB-S/S2)	
	RS-232C		D-sub 9 pin male connector	
	EXT 1		SCART (AV input, Y/C input, RGB input, TV output)	
	EXT 2		RCA pin (AV input/AUDIO L/R)	
	EXT 3		Component (AV input/Audio L/R)	
	PC		mini D-sub 15 pin	
	HDMI 1 (EXT 4)		HDMI (ARC)	
	HDMI 2 (EXT 5)		HDMI	
	HDMI 3 (EXT 6)		HDMI	
	HDMI 4 (EXT 7)		HDMI	
	USB 1		USB	
	USB 2 (HDD)		USB	
	USB 3 (WIRELESS LAN)		USB	
	ETHERNET (10/100)		Network connector	
	HDMI 2/PC AUDIO (L/R)		Ø 3.5 mm jack*2	
	DIGITAL AUDIO OUTPUT		Optical S/PDIF digital audio output	
	C. I. (Common Interface)		EN50221, R206001, CI Plus specification	
	OUTPUT/Headphones		RCA pin (AUDIO L/R)/Ø 3.5 mm jack (audio output)	
	SD CARD (VIDEO STORE)		SD card	
OSD language			Czech, Danish, Dutch, English, Estonian, Finnish, French, German, Greek, Hungarian, Italian, Latvian, Lithuanian, Norwegian, Polish, Portuguese, Russian, Slovak, Slovene, Spanish, Swedish, Turkish, Ukrainian	
Power requirement			AC 220-240 V, 50 Hz	
Power consumption (method IEC62087)			198 W (0.2 W standby*3)	155 W (0.2 W standby*3)
Weight			30.5 kg (without stand) 37.0 kg (with stand)	24.0 kg (without stand) 28.0 kg (with stand)
Operating temperature			0 °C to+ 40 °C	

*1 The satellite channel's frequency may vary according to satellites and antennas.
*2 The HDMI 2 and PC terminals can both use the same audio input terminal.
*3 Standby power consumption applies when the TV is set to not receive EPG data.

As a part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

[2] SPECIFICATIONS (LC-52,60LE833E)

Item			LCD COLOUR TV (60"/152 cm), LC-60LE833E	LCD COLOUR TV (52"/132 cm), LC-52LE833E
LCD panel			152 cm (60") X-Gen panel	132 cm (52") X-Gen panel
Resolution			1,920 x 1,080 x 4 dots	
Video colour system			PAL/SECAM/NTSC 3.58/NTSC 4.43/PAL 60	
TV function	TV-standard	Analogue	CCIR (B/G, I, D/K, L/L')	
		Digital	DVB-T (2K/8K OFDM), DVB-C, DVB-S/S2	
	Receiving channel	VHF/UHF	IR A ch-E69 ch (Digital), E2-E69 ch, F2-F10 ch, I21-I69 ch, IR A-IR J ch	
		CATV	Hyper-band, S1-S41 ch	
		Satellite	950-2150 MHz*1	
	TV-tuning system		Auto Preset 999 ch (non-Nordic [DTV]), Auto Preset 9999 ch (Nordic [DTV]), Auto Preset 99 ch (ATV), Auto Label, Auto Sort, Auto Preset 9999 ch (SAT)	
	Stereo/Bilingual		A2/NICAM	
Audio amplifier			10 W x 2 / 15 W x 1	
Speaker			(206 mm x 14 mm) x 2/Ø 100 mm	
Terminals	Antenna	VHF/UHF	75Ω Din type (analogue & digital)	
		Satellite	75Ω F type (DVB-S/S2)	
	RS-232C		D-sub 9 pin male connector	
	EXT 1		SCART (AV input, Y/C input, RGB input, TV output)	
	EXT 2		RCA pin (AV input/AUDIO L/R)	
	EXT 3		Component (AV input/Audio L/R)	
	PC		mini D-sub 15 pin	
	HDMI 1 (EXT 4)		HDMI (ARC)	
	HDMI 2 (EXT 5)		HDMI	
	HDMI 3 (EXT 6)		HDMI	
	HDMI 4 (EXT 7)		HDMI	
	USB 1		USB	
	USB 2 (HDD)		USB	
	USB 3 (WIRELESS LAN)		USB	
	ETHERNET (10/100)		Network connector	
	HDMI 2/PC AUDIO (L/R)		Ø 3.5 mm jack*2	
	DIGITAL AUDIO OUTPUT		Optical S/PDIF digital audio output	
	C. I. (Common Interface)		EN50221, R206001, CI Plus specification	
	OUTPUT/Headphones		RCA pin (AUDIO L/R)/Ø 3.5 mm jack (audio output)	
	SD CARD (VIDEO STORE)		SD card	
OSD language			Czech, Danish, Dutch, English, Estonian, Finnish, French, German, Greek, Hungarian, Italian, Latvian, Lithuanian, Norwegian, Polish, Portuguese, Russian, Slovak, Slovene, Spanish, Swedish, Turkish, Ukrainian	
Power requirement			AC 220-240 V, 50 Hz	
Power consumption (method IEC62087)			198 W (0.2 W standby*3)	155 W (0.2 W standby*3)
Weight			30.5 kg (without stand) 37.0 kg (with stand)	24.0 kg (without stand) 28.0 kg (with stand)
Operating temperature			0 °C to + 40 °C	

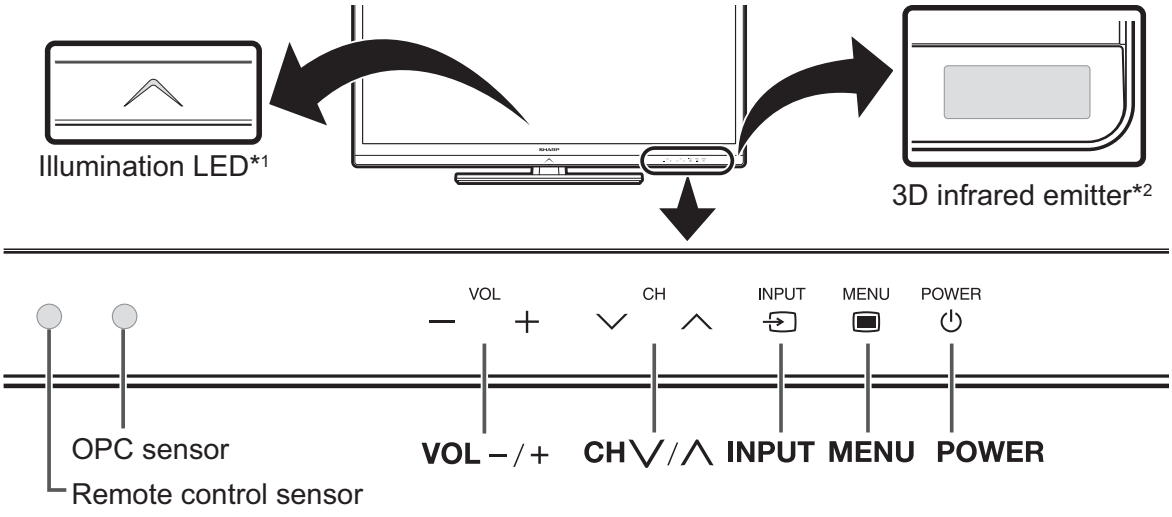
*1 The satellite channel's frequency may vary according to satellites and antennas.
*2 The HDMI 2 and PC terminals can both use the same audio input terminal.
*3 Standby power consumption applies when the TV is set to not receive EPG data.

As a part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

CHAPTER 2. OPERATION MANUAL

[1] Parts Name

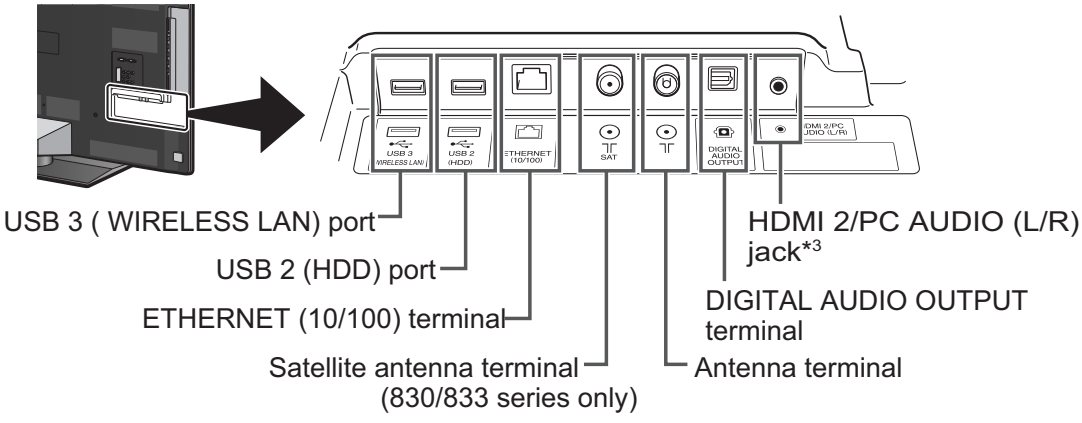
TV (front view)



*1 3D mode: Blue illumination
2D mode: White illumination

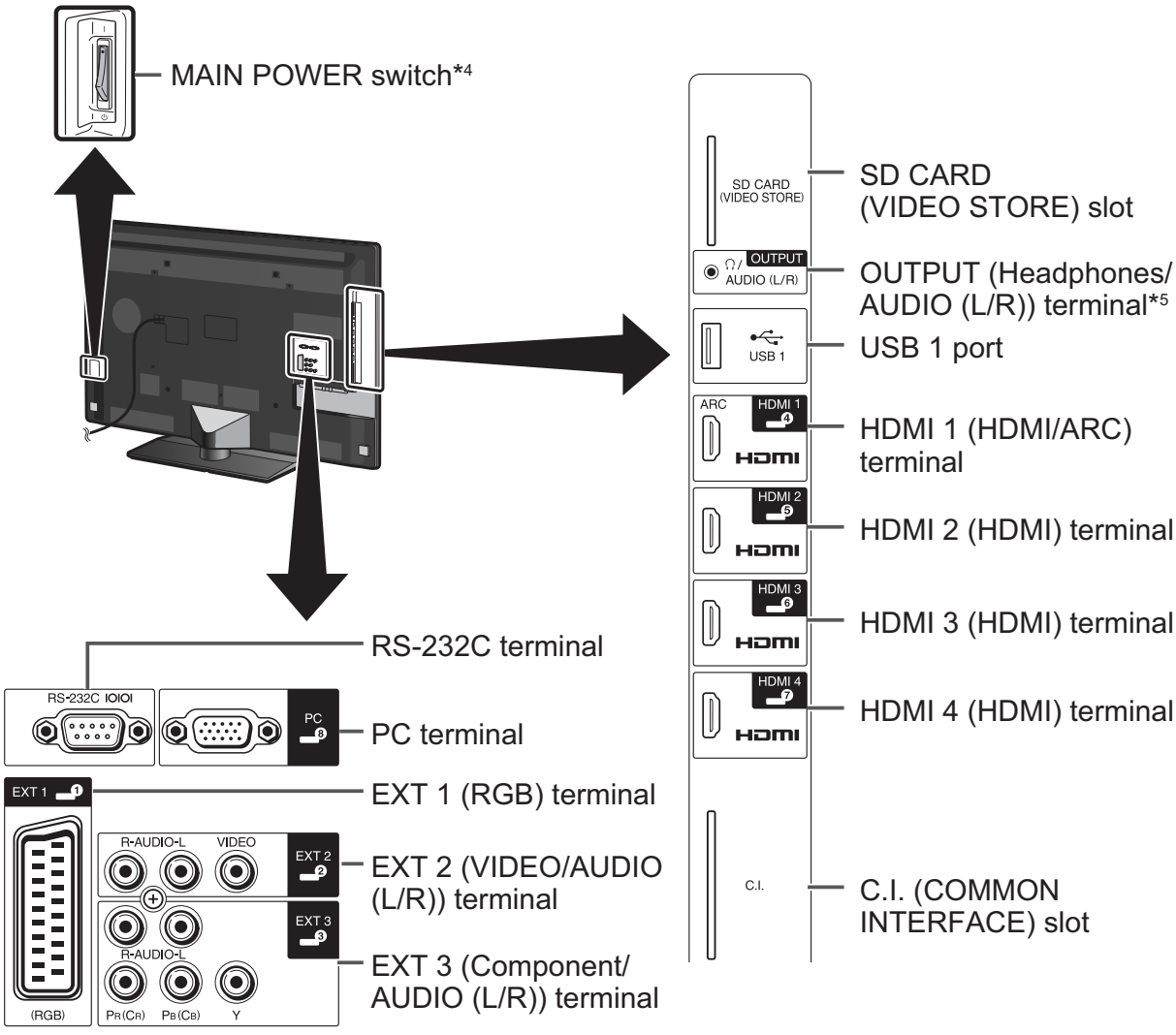
*2 This panel emits infrared signal towards the 3D glasses you wear when viewing 3D images. Do not place anything between the 3D infrared emitter on the TV and the infrared receiver on the 3D glasses.

TV (rear view)



*3 The HDMI 2 and PC terminals can both use the same audio input terminal (HDMI 2/PC AUDIO (L/R)). However, the proper item must be selected in the “Audio select” menu

TV (rear view) — continued



*4 When the MAIN POWER switch is turned off (⏻), the amount of electric power consumed will be reduced to 0.01 W or less. However, unlike when unplugging the AC cord, the power is not completely disconnected.

*5 When a cable is connected to the OUTPUT terminal, the speakers do not output sound.

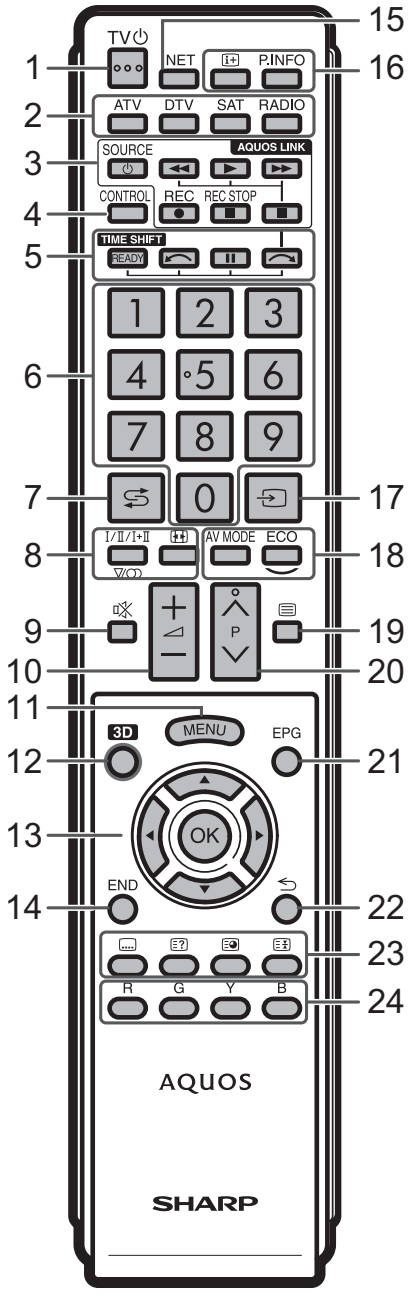
WARNING

Excessive sound pressure from earphones and headphones can cause hearing loss. Do not set the volume at a high level. Hearing experts advise against extended listening at high volume levels.

Important information:

Satellite services are only available for the 830/833 model series.

Remote contr ol unit



1 **TV** ⏻ (Standby/On)

2 **ATV**
Access conventional analogue TV mode.

DTV
Access digital TV mode.

SAT
Access satellite mode.

RADIO
DTV/SAT: Switch between radio and data mode.
When only data broadcasting (no radio broadcasting) is transmitted by DVB, the radio broadcasting will be skipped.

3 **AQUOS LINK buttons**

4 **CONTROL**
Display a panel to operate some functions on the screen.
NET: “NET MENU” screen on/off.

5 **TIME SHIFT (READY/ ↶ / ❚❚ / ↷)**

Temporarily record a programme you are watching.

6 **Numeric buttons 0-9**
Set the channel. Enter desired numbers.
Set the page in teletext mode.
When the five Nordic countries (Sweden, Norway, Finland, Denmark or Iceland) are selected in the country setting from initial auto installation, DTV services are four digits.
When another country is selected, DTV services are three digits.

7 **(Flashback)**
Return to the previously selected channel or external input.

8 **(Sound mode)**
Select a sound multiplex mode.

(Wide mode)
Select a wide mode.

9 **(Mute)**
TV sound on/off.

10 **(Volume)**
Increase/decrease TV volume.

11 **MENU**
"Menu" screen on/off.

12 **3D**
Select between 3D and 2D image viewing.

13 **(Cursor)**
Select a desired item.

OK
Execute a command.
ATV/DTV/SAT: Display "CH list" when no other "Menu" screen is running.

14 **END**
ATV/DTV/SAT: Exit the "Menu" screen.
NET: Return to the start page.

15 **NET**
Access Net TV.

16 **(Display information)**
Display the station information (channel number, signal, etc.) on the screen.

P. INFO
Display programme information transmitted through digital video broadcasting (DTV/SAT only).

17 **(INPUT)**
Select an input source.

18 **AV MODE**
Select audio/video settings.

ECO(Standard/Advanced/Off)
Select "Energy save" setting.

19 **(Teletext)**
ATV: Display analogue teletext.
DTV/SAT: Select MHEG-5 or teletext for DTV/SAT.

20 P /
ATV/DTV/SAT: Select the TV channel.
NET: Scrolls pages up/down.

21 **EPG**
DTV/SAT: Display the EPG screen.

22 **(Return)**
ATV/DTV/SAT: Return to the previous "Menu" screen.
NET: Return to the previous page (This may not function for some services).

23 **Buttons for useful operations**

(Subtitle)
Switch subtitle languages on/off.

(Reveal hidden teletext)

(Subpage)

(Freeze/Hold)
Freeze a moving image on the screen.
Teletext: Stop updating teletext pages automatically or release the hold mode.

24 **R/G/Y/B (Colour) buttons**
The coloured buttons are correspondingly used to select the coloured items on the screen (e.g., EPG, MHEG-5, teletext).

Important information:
Satellite services are only available for the 830/833 model series.

Preparation

Attaching the stand unit

Before performing work, spread cushioning over the surface on which you will be laying the TV. This will prevent it from being damaged.

CAUTION

Attach the stand in the correct direction.
Be sure to follow the instructions. Incorrect installation of the stand may result in the TV falling over.

1 Confirm that there are screws with the stand unit.

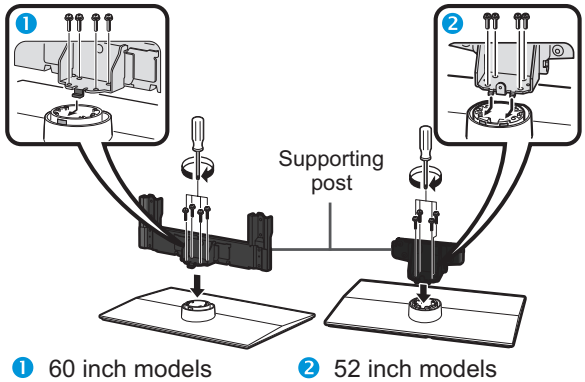
① **For 60 inch models (four long screws, five middle screws and two short screws)**



② **For 52 inch models (four long screws, four middle screws and one short screw)**



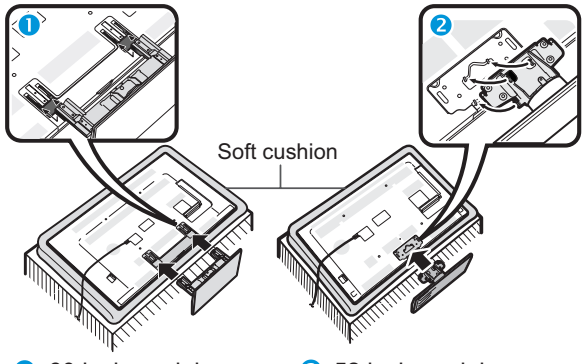
2 Attach the supporting post for the stand unit onto the base using the long screws with a screwdriver as shown.



❶ 60 inch models ❷ 52 inch models

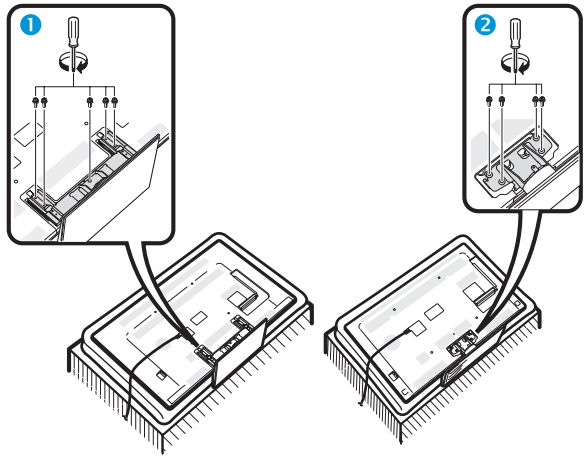
3 Insert the stand into the openings on the bottom of the TV (hold the stand so it will not drop from the edge of the base area).

Make sure that the stand is firmly inserted into the TV. Improper installation may result in tilting of the TV set.



❶ 60 inch models ❷ 52 inch models

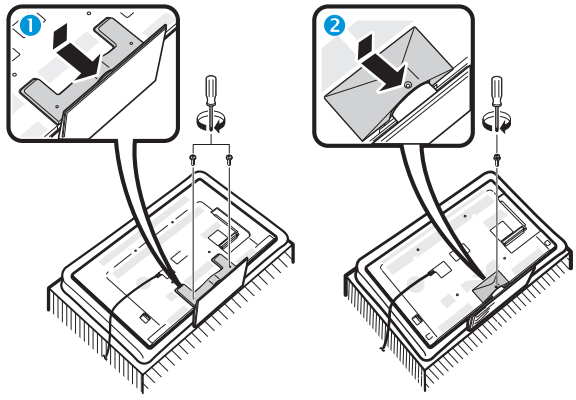
4 Insert and tighten middle screws into the holes on the rear of the TV.



❶ 60 inch models ❷ 52 inch models

5 Attaching the stand cover.

① Insert the stand cover.
② Insert and tighten the short screw(s) into the hole(s) of the stand cover.



❶ 60 inch models ❷ 52 inch models

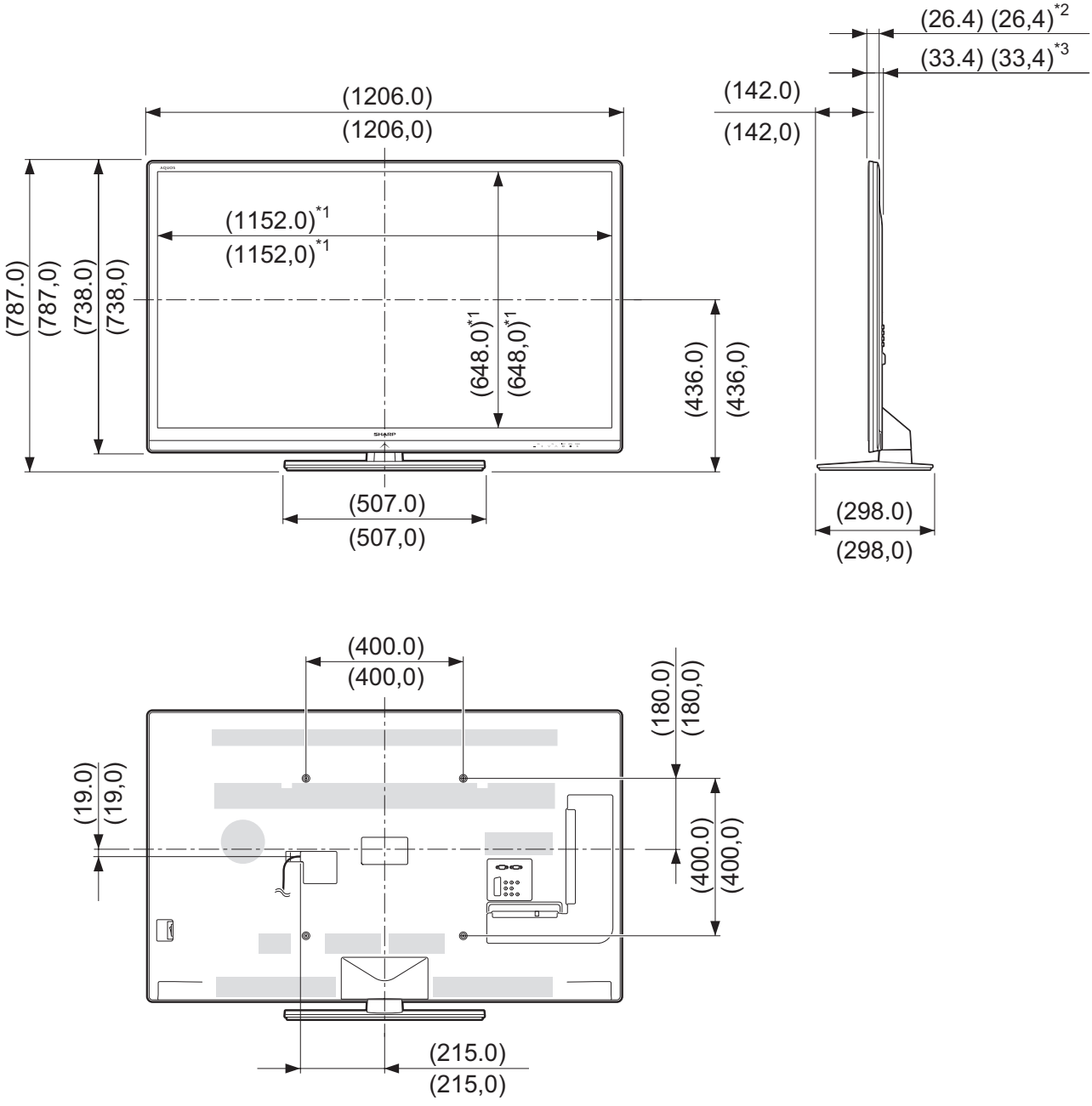
NOTE

To detach the stand unit, perform the steps in reverse order.
A screwdriver is not supplied with this product.
The TV can be rotated up to 20 degrees to the right and left.

CHAPTER 3. DIMENSIONS

[1] DIMENSIONS (LC-52LE830E, RU/831E, S/833E)

Unit: mm



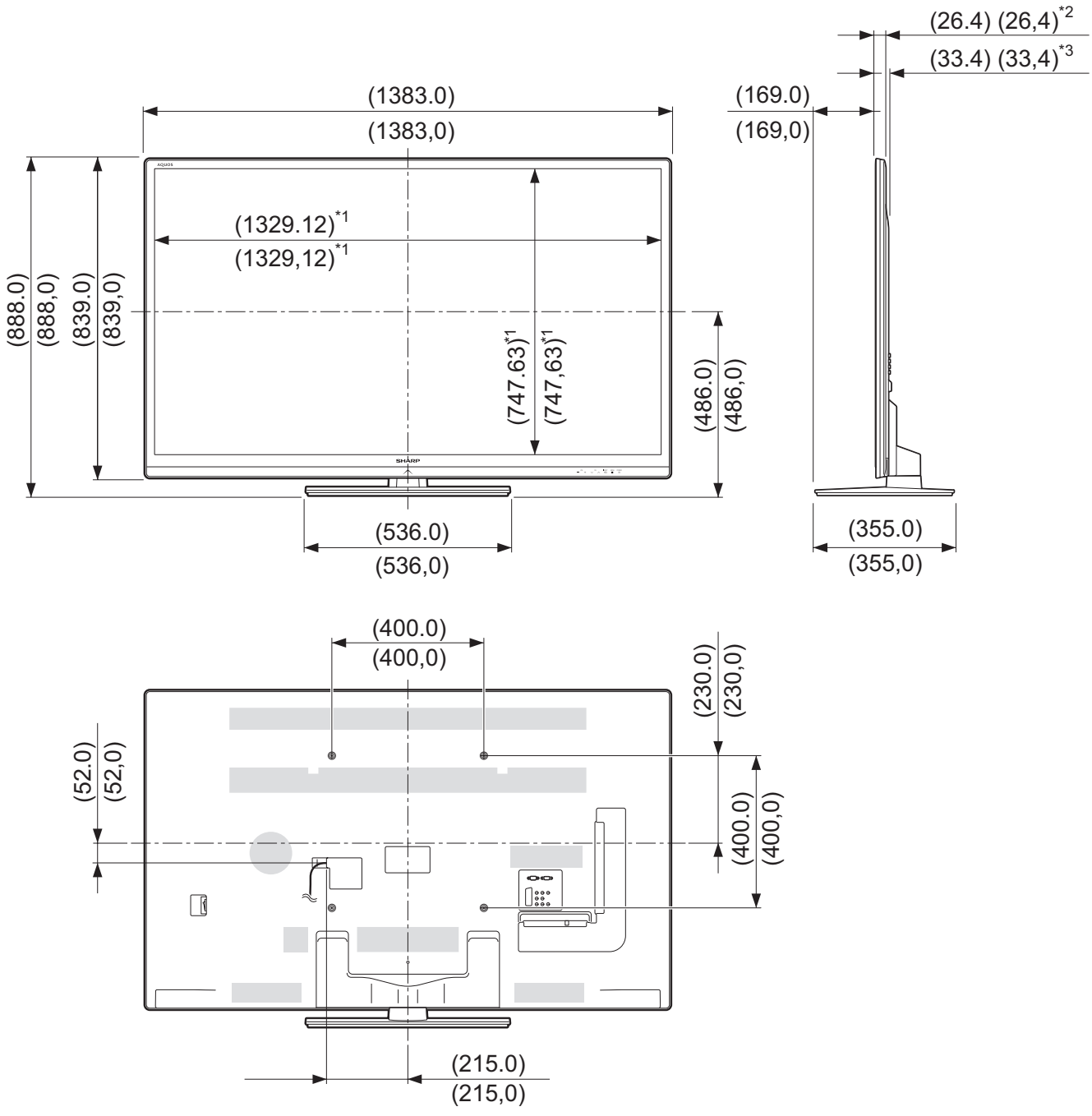
*1 Active area
*2 Thinnest part
*3 Excluding projecting part

NOTE

Dimensions do not include protrusions such as screws and some parts.

[2] DIMENSIONS (LC-60LE830E, RU/831E, S/833E)

Unit: mm



*1 Active area
*2 Thinnest part
*3 Excluding projecting part

NOTE

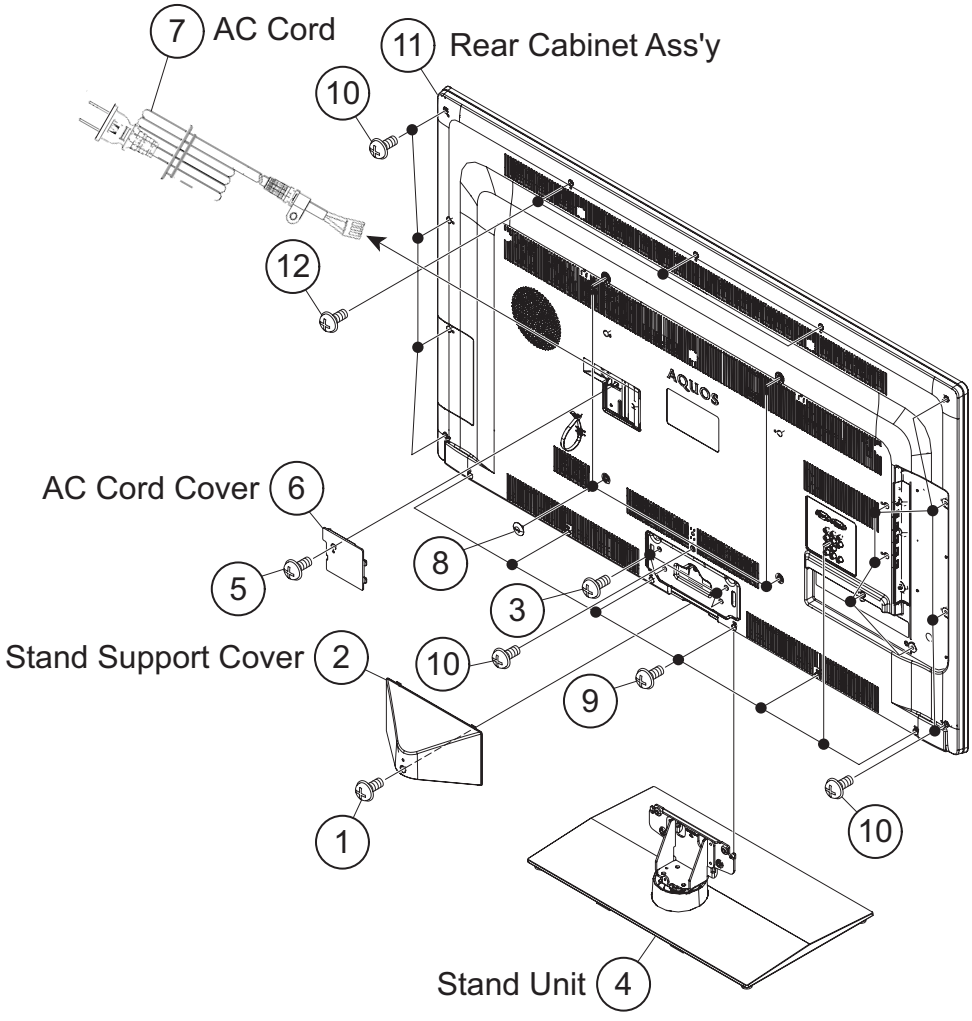
Dimensions do not include protrusions such as screws and some parts.

CHAPTER 4. REMOVING OF MAJOR PARTS

[1] REMOVING OF MAJOR PARTS (LC-52LE830E,RU/831E,S/833E)

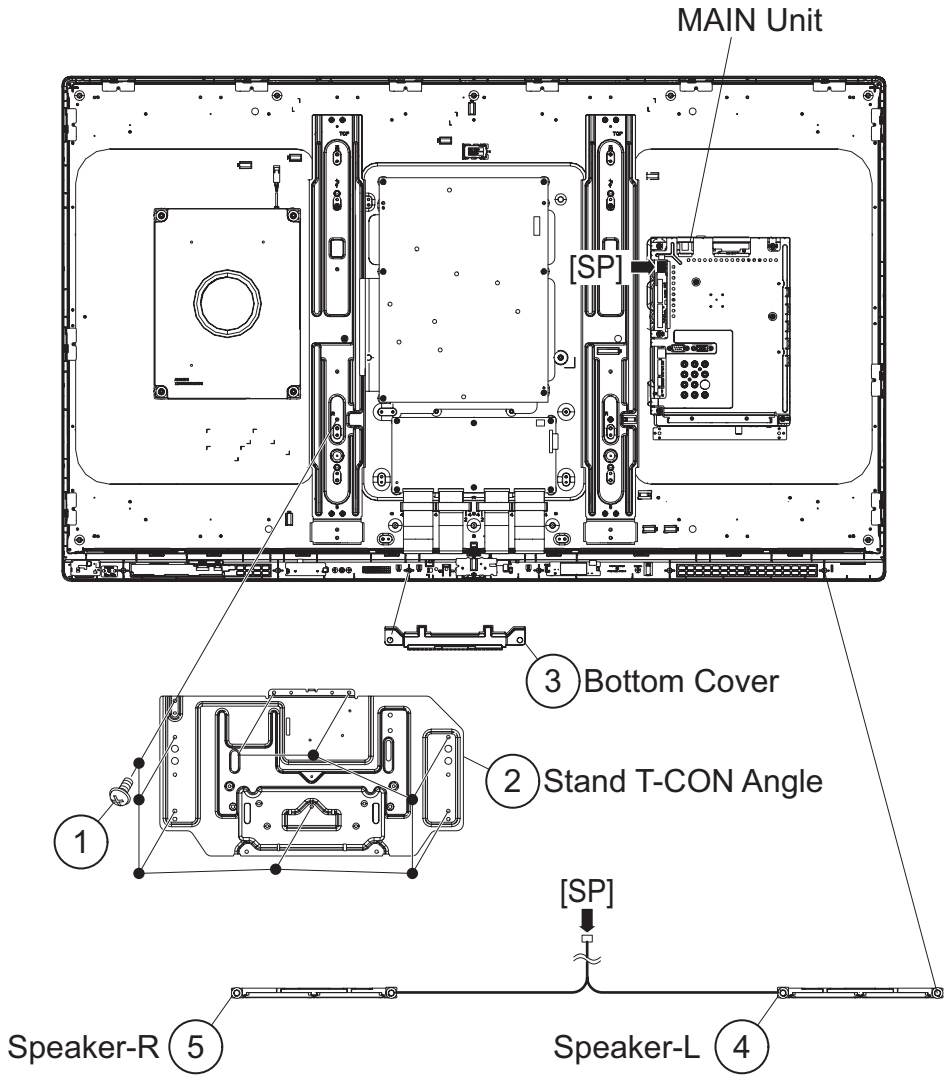
1. Removing of Stand Unit and Rear Cabinet Ass'y.

1. Remove the 1 lock screw ① and detach the Stand Support Cover ②.
2. Remove the 4 lock screws ③ and detach the Stand Unit ④.
3. Remove the 1 lock screw ⑤ and detach the AC Cord Cover ⑥.
4. Disconnect AC Cord ⑦.
5. Remove the 4 Vesa Hole Covers ⑧, 7 lock screws ⑨ and 13 lock screws ⑩ and 3 lock screws⑫ and detach the Rear Cabinet Ass'y ⑪.



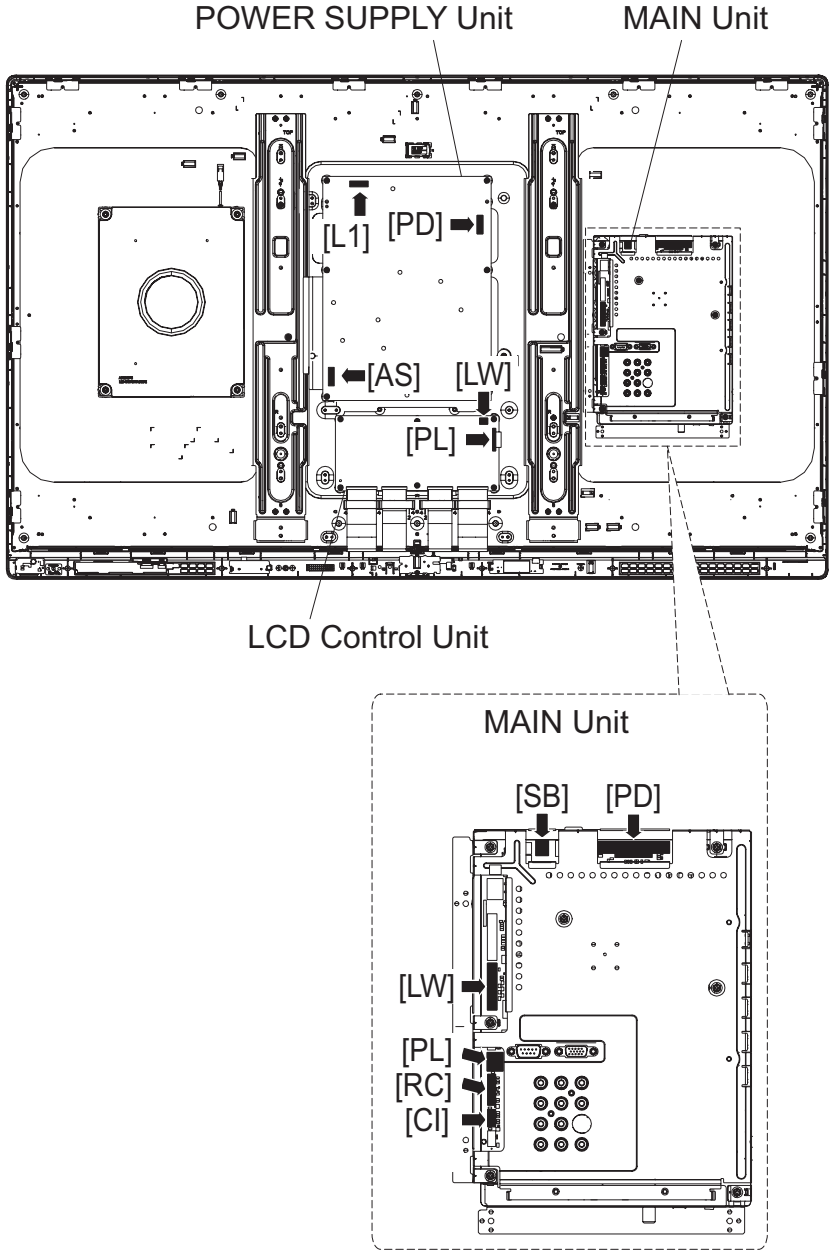
2. Removing of Speaker-L/R.

1. Remove the 8 lock screws ① and detach the Stand T-CON Angle ②.
2. Detach the Bottom Cover ③.
3. Disconnect SP wire.
4. Detach the Speaker-L ④, Speaker-R ⑤.



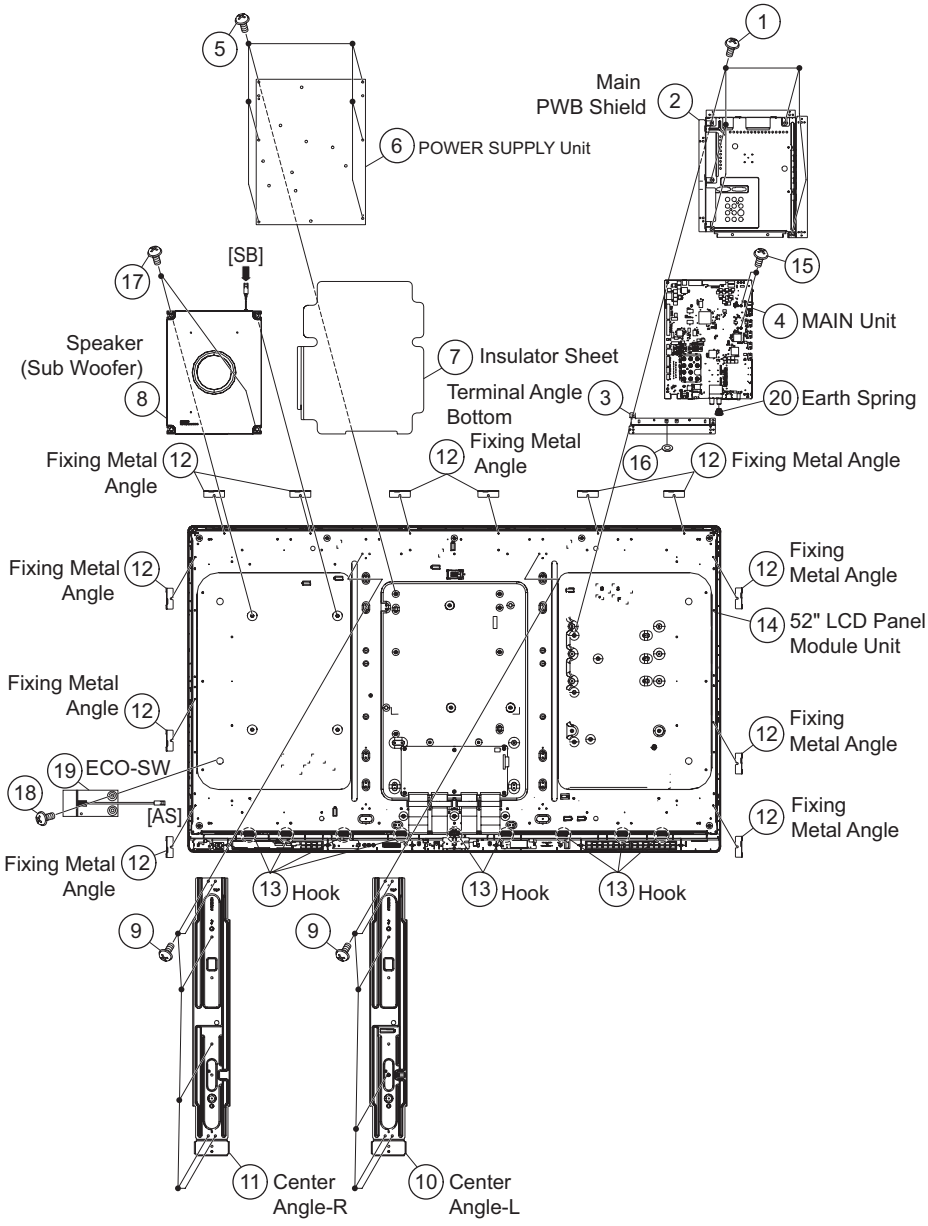
3. Removing of Speaker-L/R.

1. Disconnect the following connectors from the MAIN Unit. (SB, PD, LW, PL, RC, CI)
2. Disconnect the following connectors from the POWER SUPPLY Unit. (PD, L1, AS)
3. Disconnect the following connectors from the LCD Control Unit. (LW, PL)



4. Removing of MAIN Unit, POWER/LED Drive Unit, Speaker (Sub Woofer), 52” LCD Panel Module Unit.

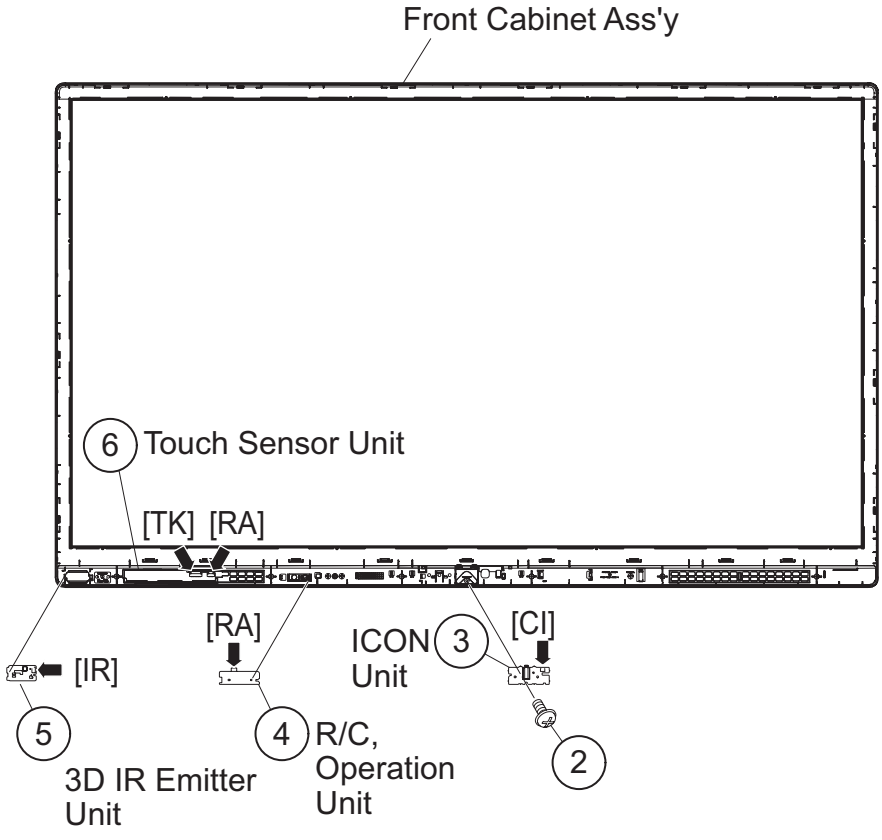
1. Remove the 5 lock screws ① and detach the Main PWB Shield ② .
2. Remove the 2 lock screws ⑮ and detach the MAIN Unit ④ .
3. Remove the Hexagon screw ⑯ and detach the Terminal Angle Bottom ③ and Earth Spring ⑳.(Only LC-52LE830E,RU)
4. Remove the 6 lock screws ⑤ and detach the POWER SUPPLY Unit ⑥ and Insulator Sheet ⑦.
5. Remove the 2 lock screws ⑰ and detach the Speaker (Sub Woofer) ⑧.
6. Remove the 12 lock screws ⑨ and detach the Center Angle-L ⑩, Center Angle-R ⑪.
7. Detach the 12 Fixing Metal Angles ⑫.
8. Remove the 9 Hooks ⑬ and detach the 52” LCD Panel Module Unit ⑭.
9. Remove the 1 lock screw ⑱ and detach the ECO-SW ⑲ .



5. Removing of R/C, Operation Unit, ICON Unit, 3D IR Emitter Unit, Touch Sensor Unit.

1. Remove the 1 lock screw ② and detach the ICON Unit ③.
2. Detach the R/C, Operation Unit ④.
3. Detach the 3D IR Emitter Unit ⑤ .
4. Detach the Touch Sensor Unit ⑥.

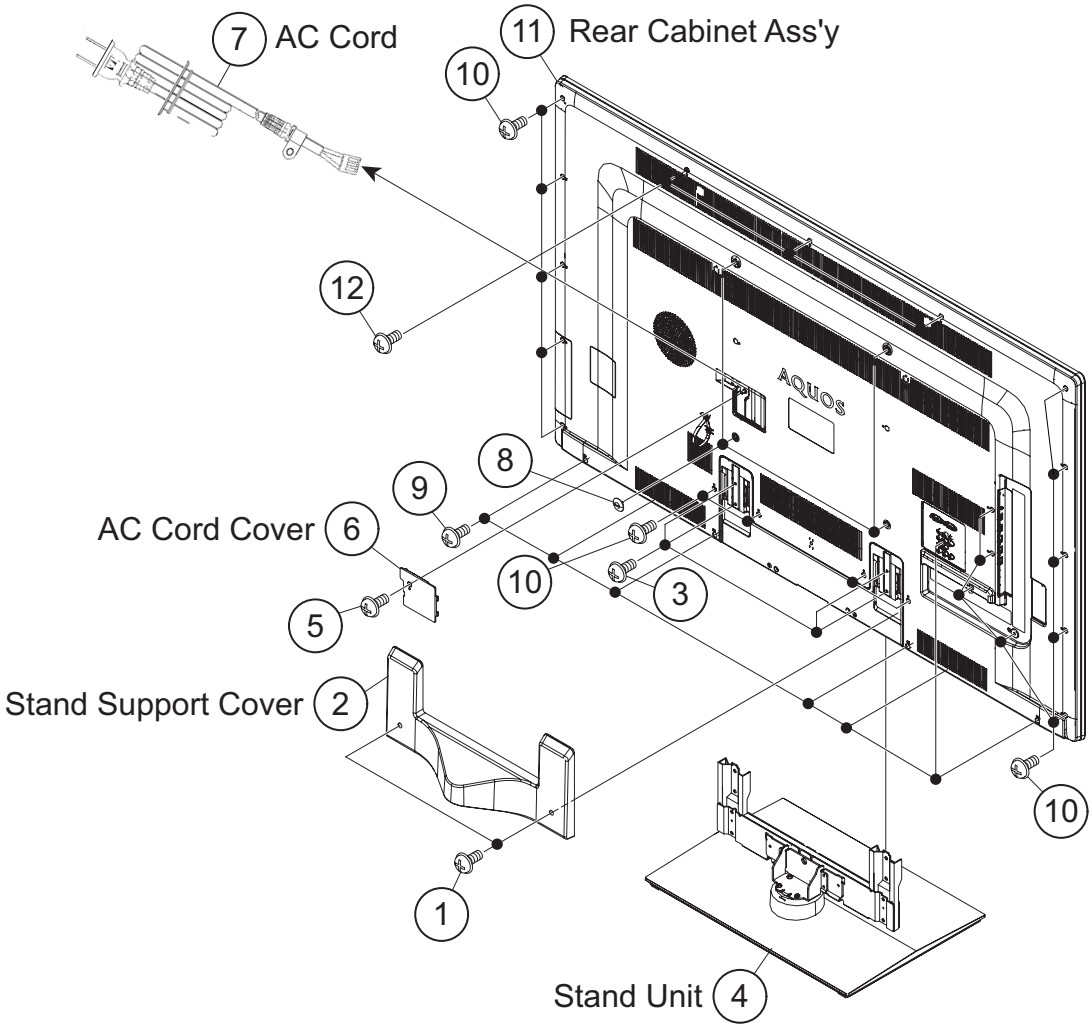
NOTE: The Touch Sensor unit ⑥ reuse will be impossible, once it is stuck on front cabinet and exfoliates.



[2] REMOVING OF MAJOR PARTS (LC-60LE830E,RU/831E,S/833E)

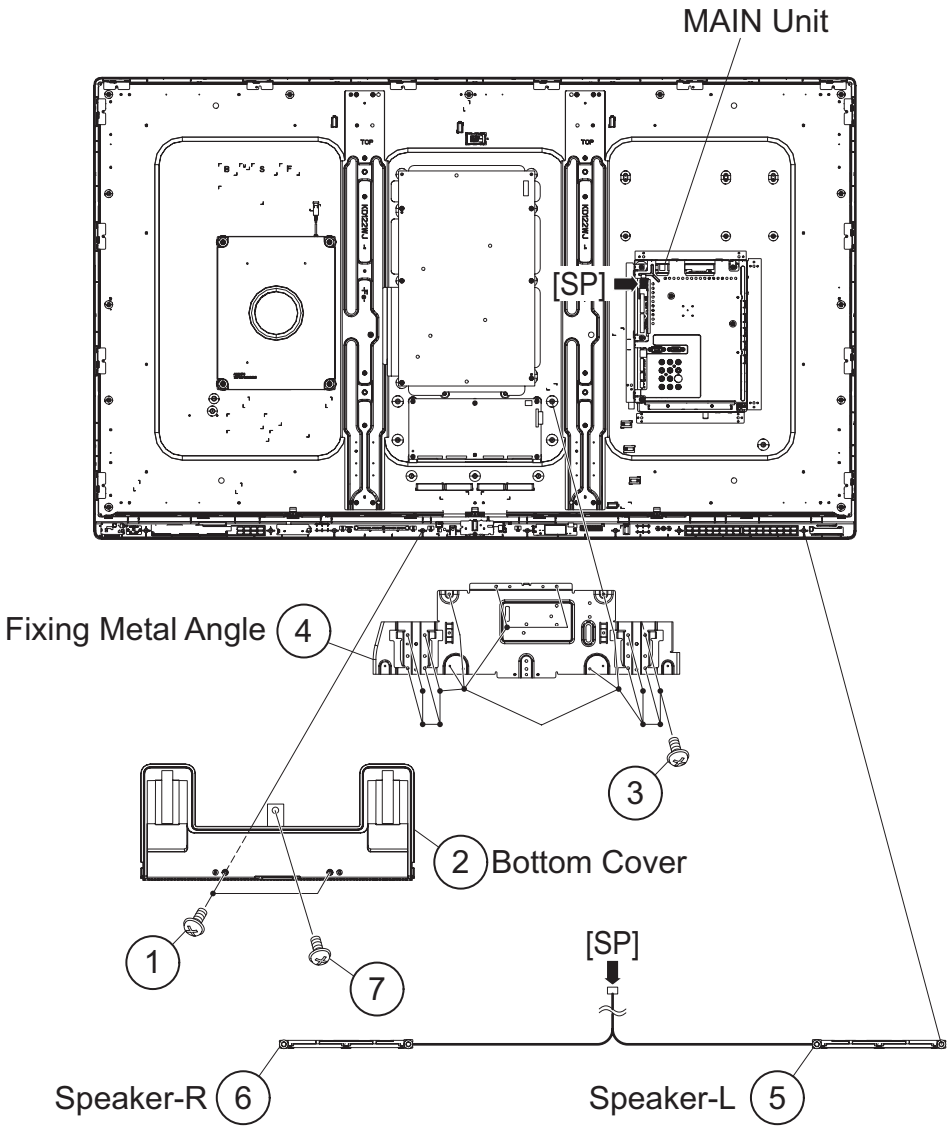
1. Removing of Stand Unit and Rear Cabinet Ass'y.

1. Remove the 2 lock screws ① and detach the Stand Support Cover ②.
2. Remove the 4 lock screws ③ and detach the Stand Unit ④.
3. Remove the 1 lock screw ⑤ and detach the AC Cord Cover ⑥.
4. Disconnect AC Cord ⑦.
5. Remove the 4 Vesa Hole Covers ⑧, 7 lock screws ⑨ and 18 lock screws ⑩ and 3 lock screws ⑫ and detach the Rear Cabinet Ass'y ⑪.



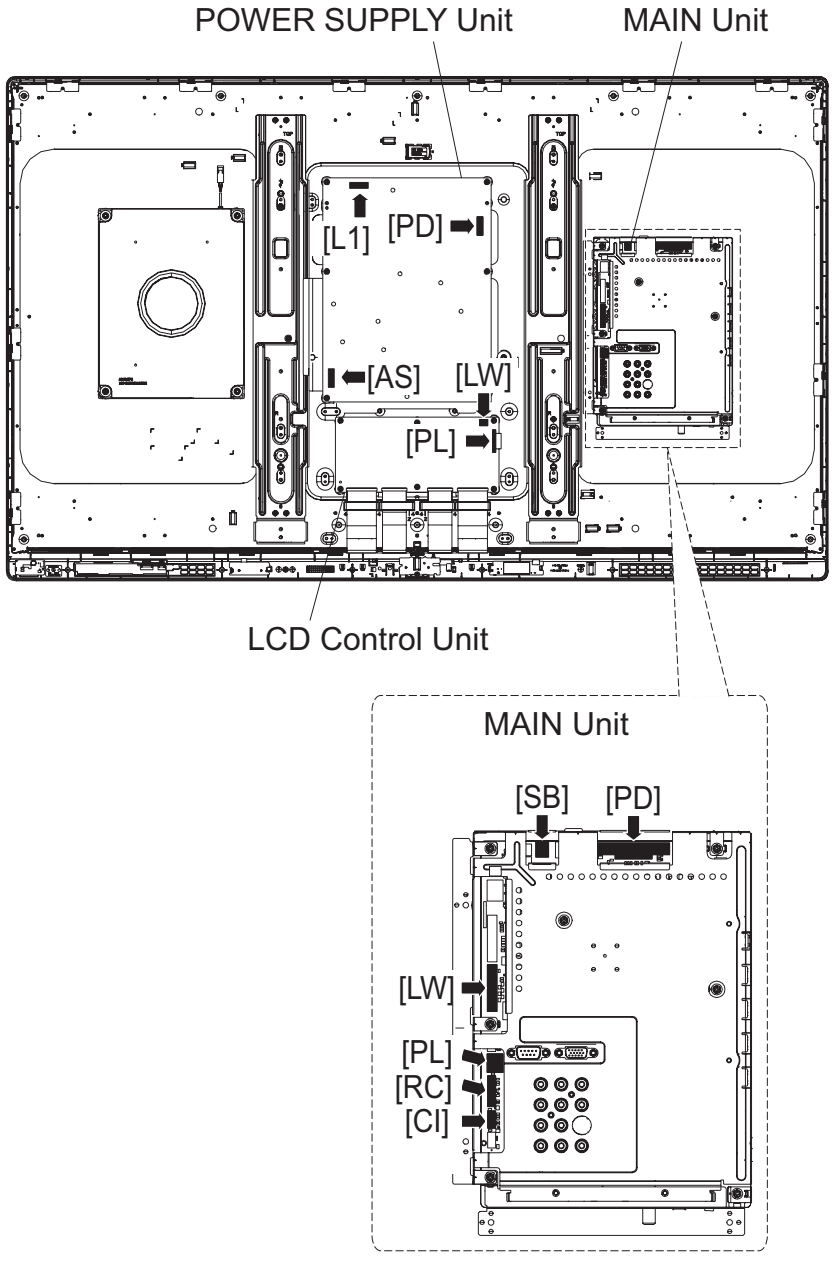
2. Removing of Speaker-L/R.

1. Remove the 2 lock screws ① and the 1 lock screw ⑦ detach the Bottom Cover ②.
2. Remove the 14 lock screws ③ and detach the Fixing Metal Angle ④.
3. Disconnect SP wire.
4. Detach the Speaker-L ⑤, Speaker-R ⑥.



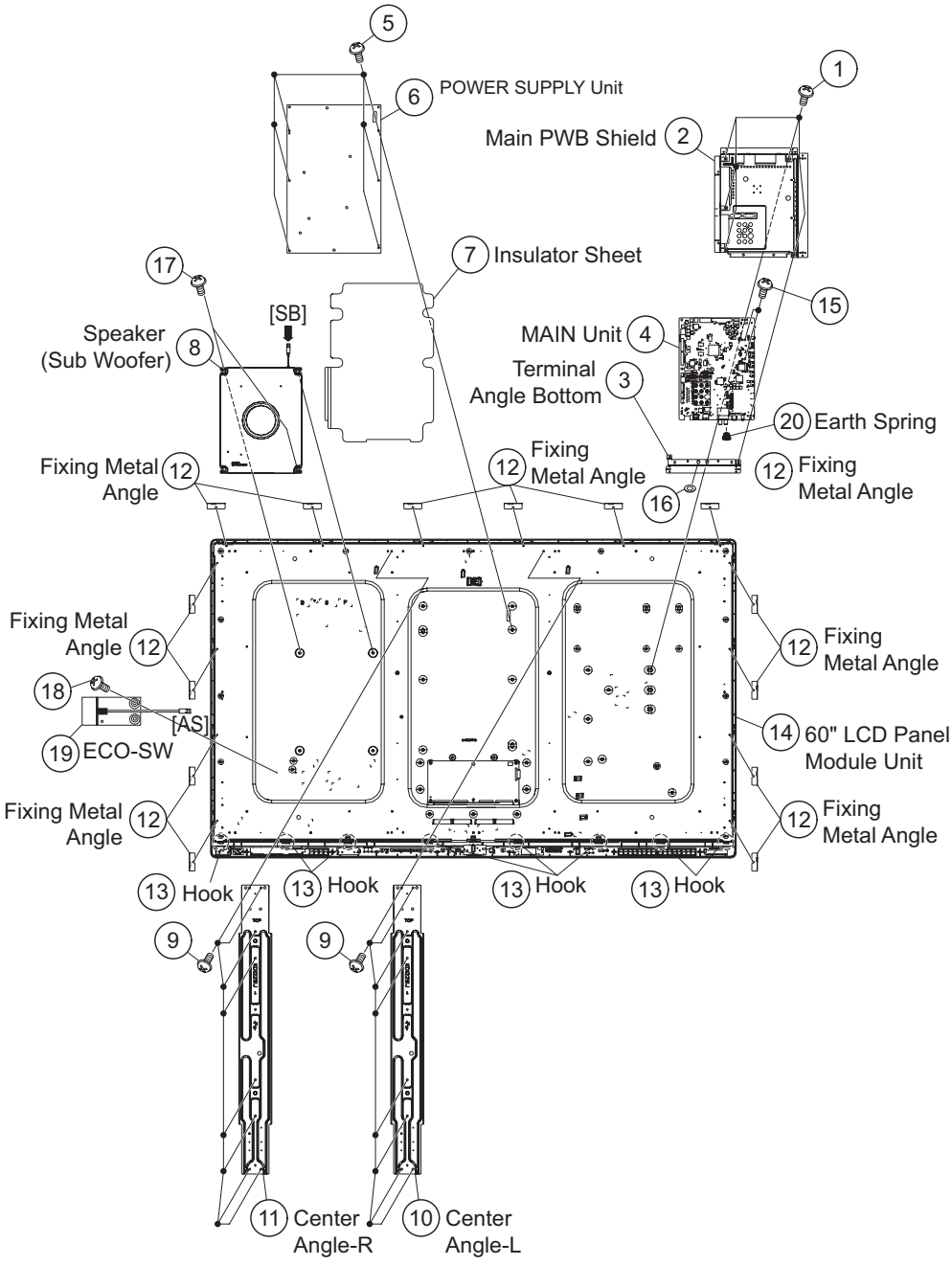
3. Removing of Connectors.

1. Disconnect the following connectors from the MAIN Unit. (SB, PD, LW, PL, RC, CI)
2. Disconnect the following connectors from the POWER SUPPLY Unit. (PD, L1, AS)
3. Disconnect the following connectors from the LCD Control Unit. (LW, PL)



4. Removing of MAIN Unit, POWER/LED Drive Unit, speaker (Sub Woofer), 60” LCD Panel Module Unit.

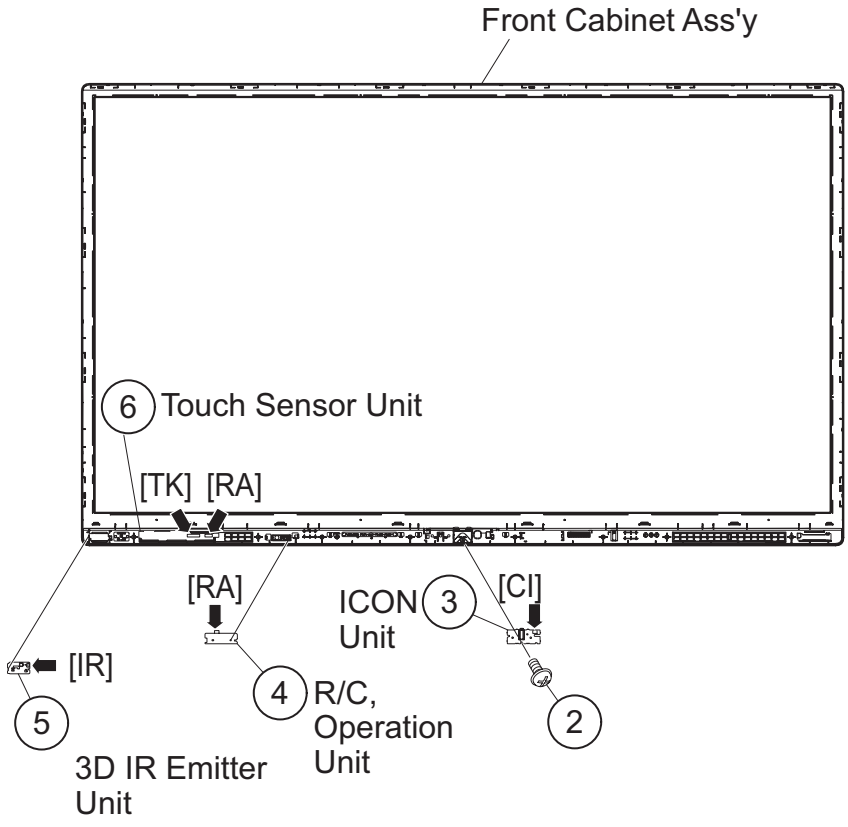
1. Remove the 5 lock screws ① and detach the Main PWB Shield ② .
2. Remove the 2 lock screws ⑮ and detach the MAIN Unit ④.
3. Remove the Hexagon screw ⑯ and detach the Terminal Angle Bottom ③ and Earhe Spring ⑳.(Only LC-60LE630E,RU)
4. Remove the 6 lock screws ⑤ and detach the POWER SUPPLY Unit ⑥ and Insulator Sheet ⑦.
5. Remove the 2 lock screws ⑰ and detach the Speaker (Sub Woofer) ⑧.
6. Remove the 16 lock screws ⑨ and detach the Center Angle-L ⑩, Center Angle-R ⑪.
7. Detach the 14 Fixing Metal Angles ⑫.
8. Remove the 8 Hooks ⑬ and detach the 60” LCD Panel Module Unit ⑭.
9. Remove the 1 lock screw ⑱ and detach the ECO-SW ⑲.



5. Removing of R/C, Operation Unit, ICON Unit, 3D IR Emitter Unit, Touch Sensor Unit.

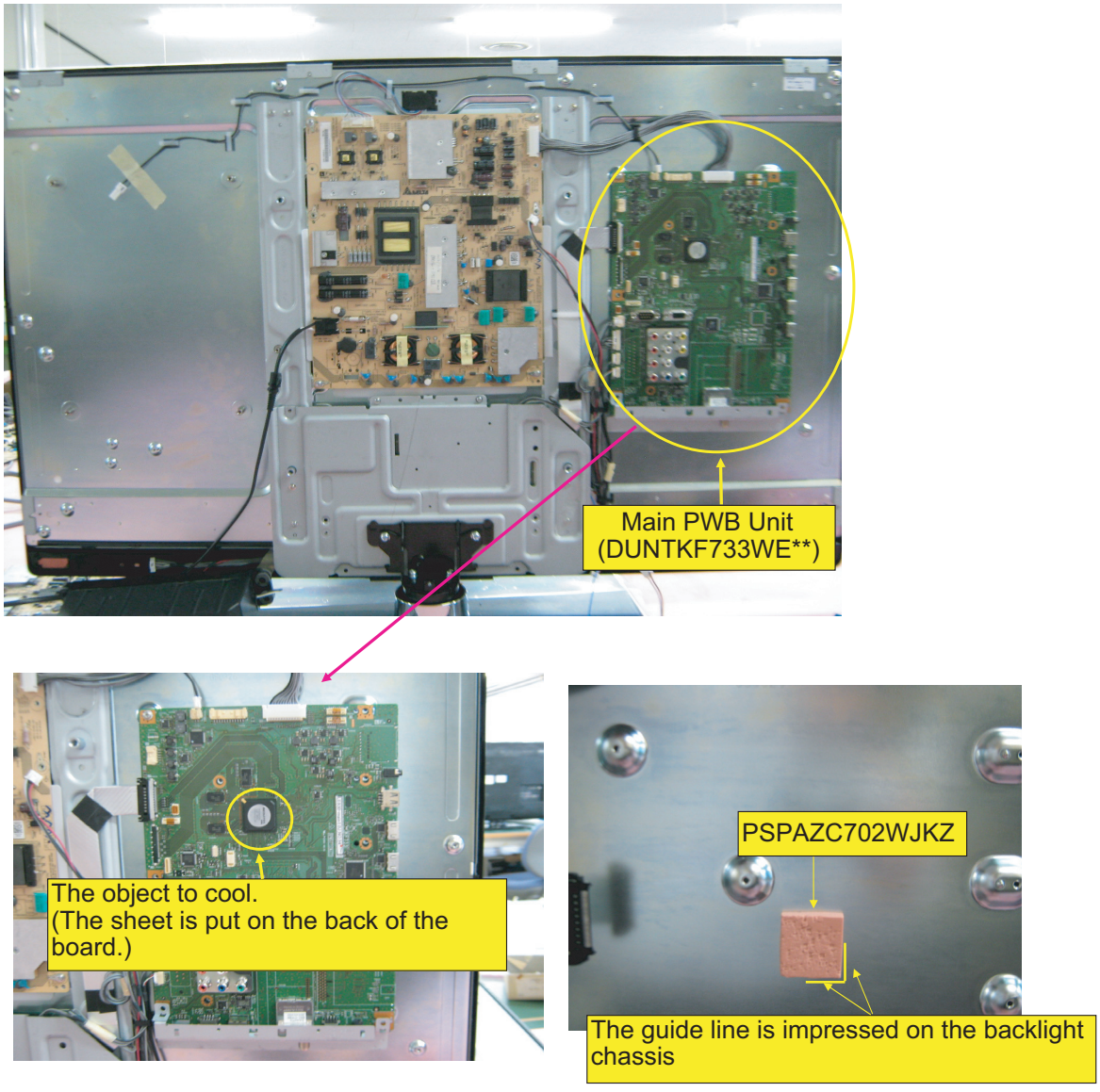
1. Remove the 1 lock screw ② and detach the ICON Unit ③.
2. Detach the R/C, Operation Unit ④.
3. Detach the 3D IR Emitter Unit ⑤.
4. Detach the Touch Sensor Unit ⑥.

NOTE: The Touch Sensor unit ⑥ reuse will be impossible, once it is stuck on front cabinet and exfoliates.

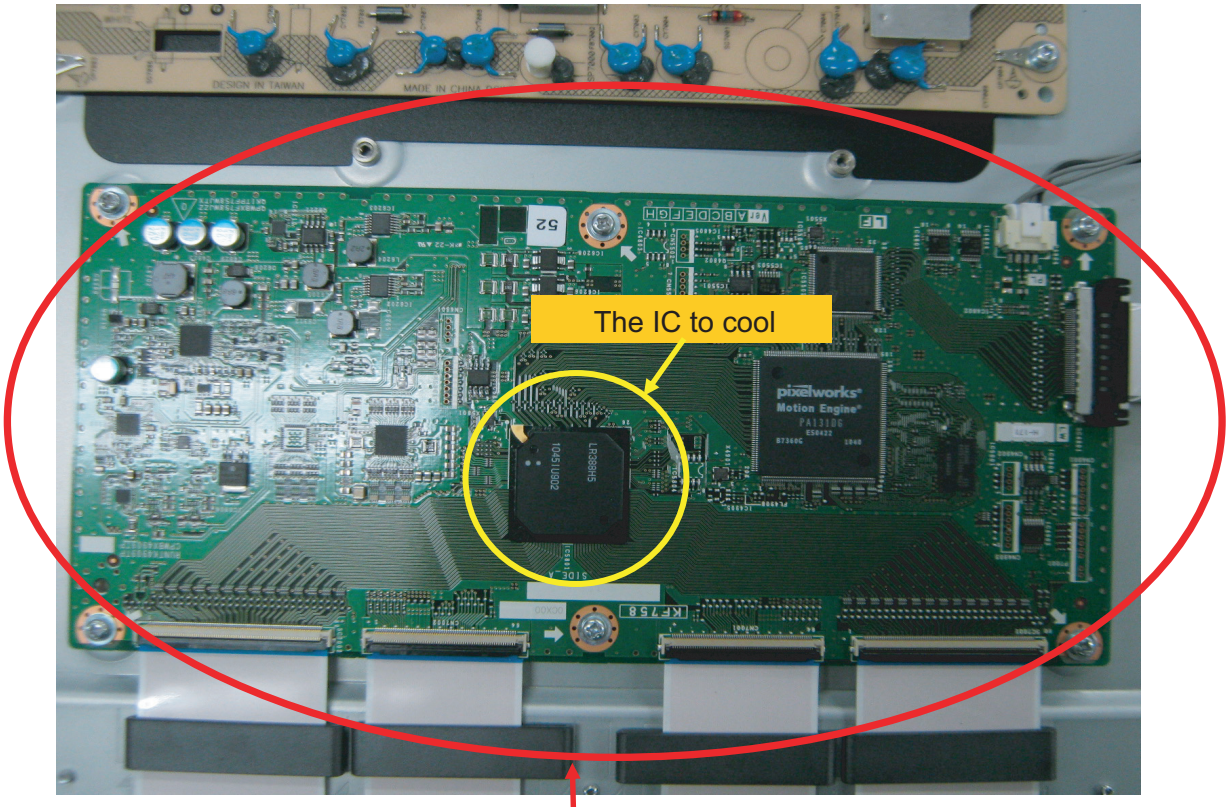


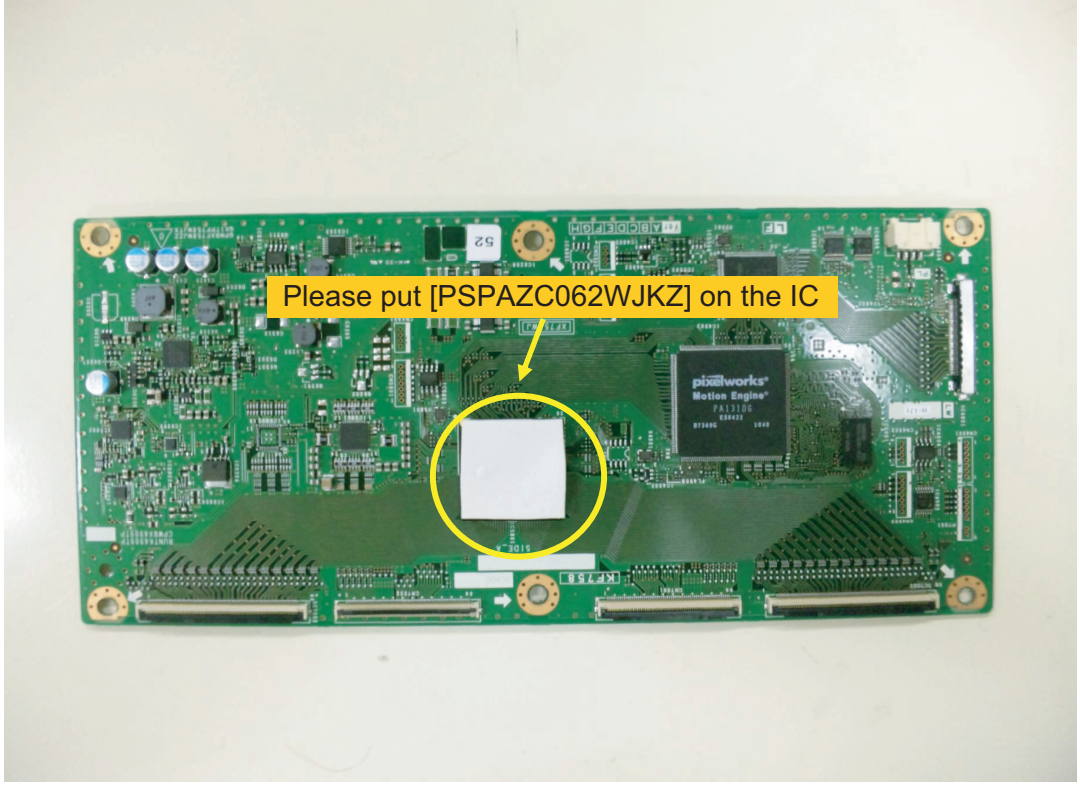
[3] The location putting on the heat measure sheet

1. MAIN PWB Unit



2. LCD Control Unit

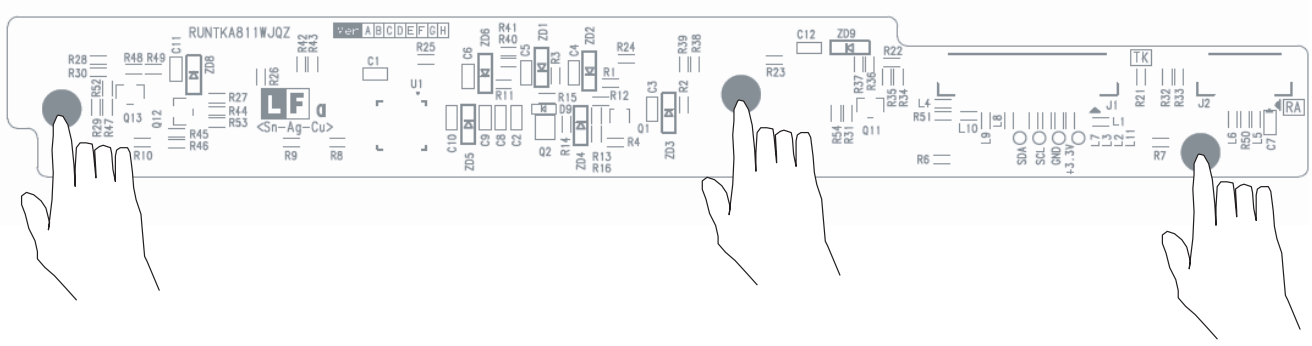




[4] Precautions for assembly

1. Attaching the touch sensor

1. After removing the release paper, attach the touch sensor keeping out dust and dirt.
2. Press the 3 circular silk positions on the PWB to fix the touch sensor. There is no problem if the pressing positions are slightly misaligned. However, do not press the connectors directly since they are very easy to break.

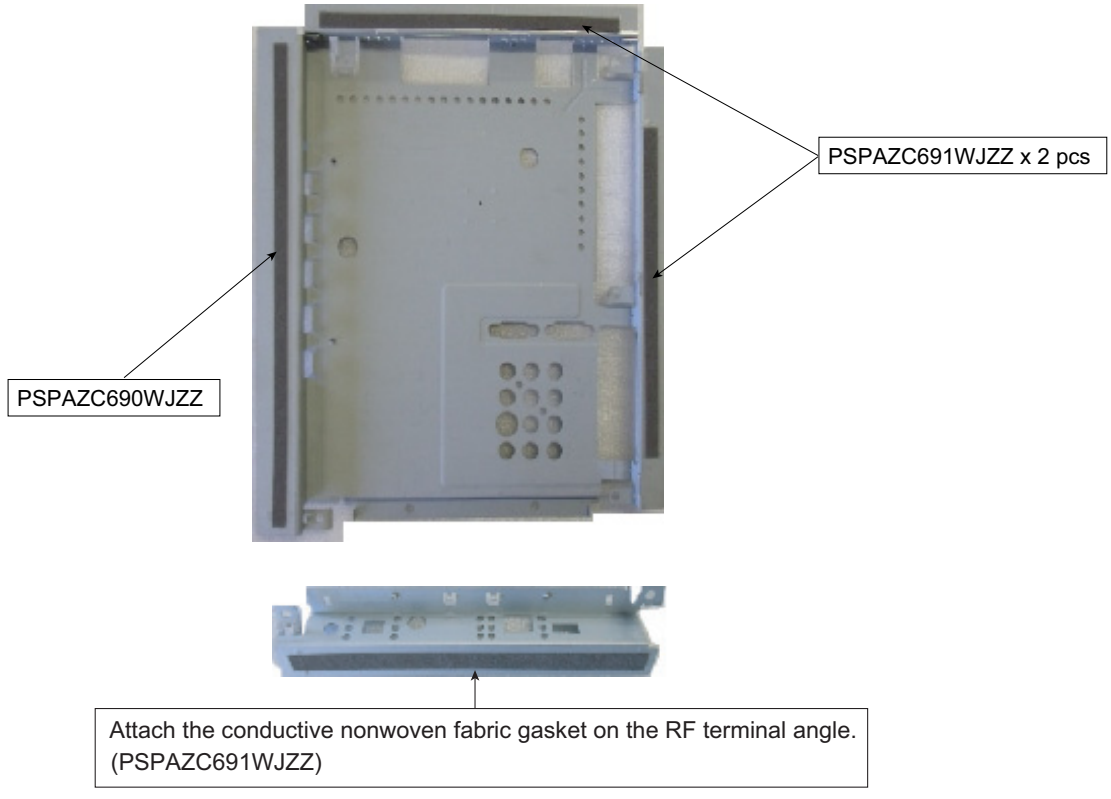


2. Points to be checked and precautions when servicing the unit

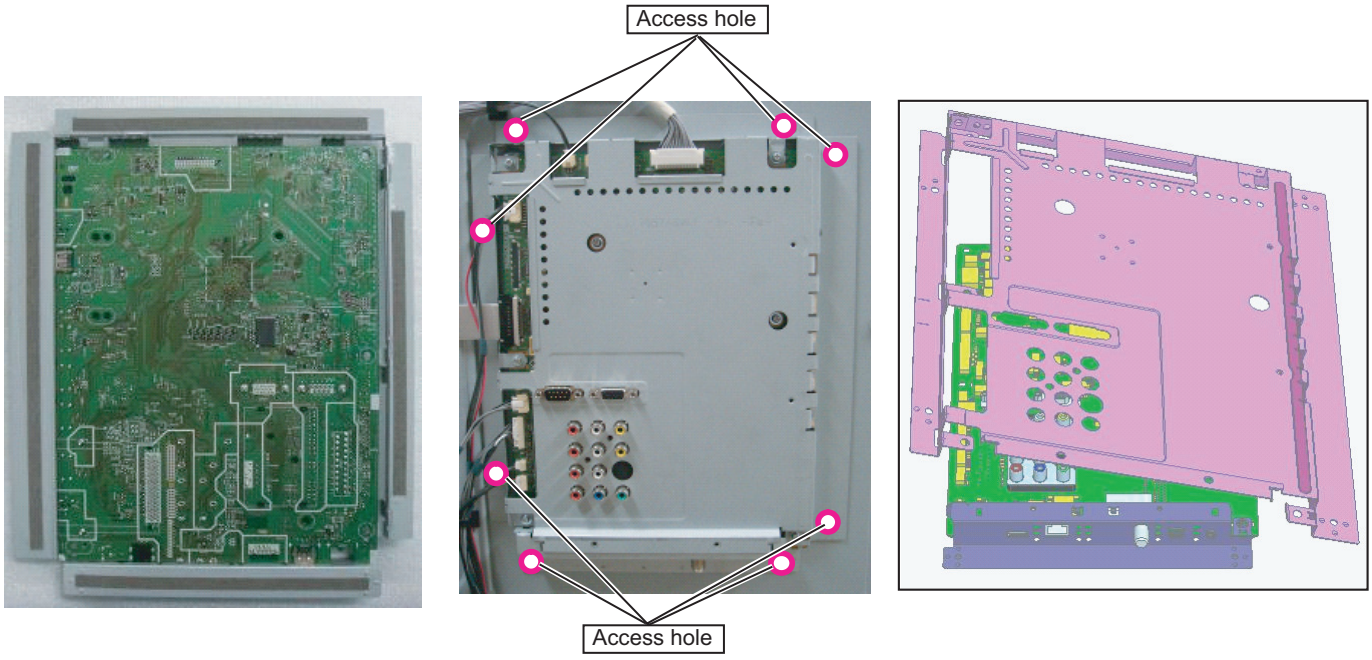
Mount the main PWB Ass'y on the backlight chassis and check that the EMI-prevention parts are not peeled and twisted from the access holes. (The EMI-prevention parts, conductive nonwoven fabric gaskets, must be seen from the access holes.)

[Countermeasure]

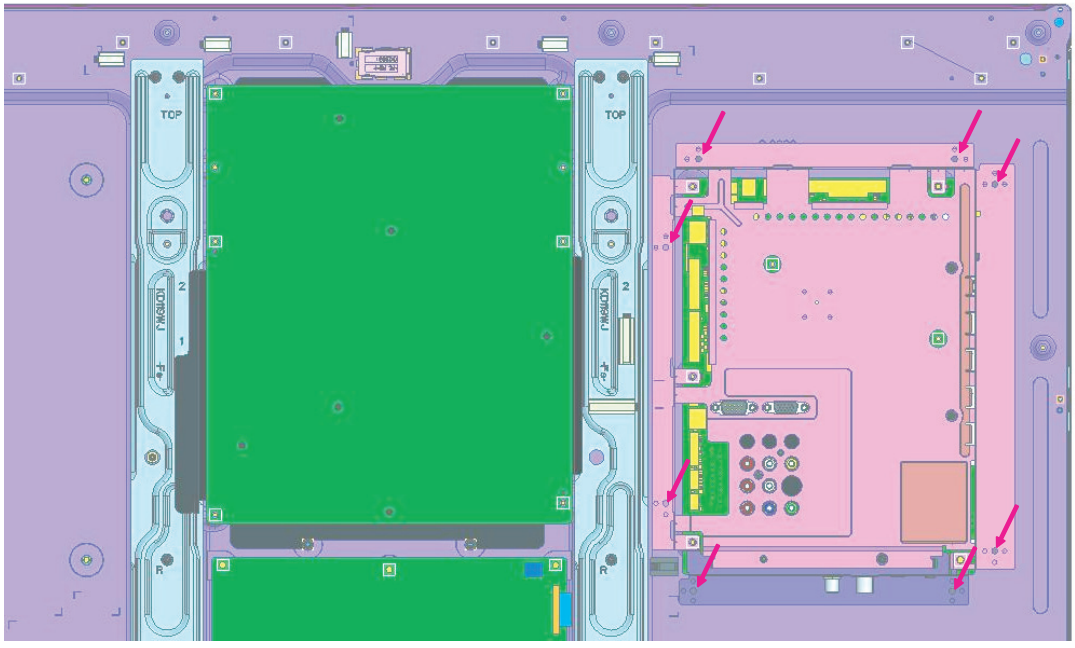
Attach the conductive nonwoven fabric gaskets on the shielded case on the main PWB.



State where the main PWB and shielded case are assembled



The following is a drawing mounting the main PWB Ass'y on the backlight chassis. (The parts indicated by -> are the access holes for confirmation.)
(Main PWB Ass'y => State where the shielded case and RF terminal angle are mounted on the main PWB)



[5] The way of detaching Rear Cabinet

- Here are the way of detaching Rear Cabinet. Please respond in following order.

1. Lay the TV set down on the desk or table with the glass side down, set the left hand between Front Cabinet and Rear Cabinet on the bottom of right corner side.

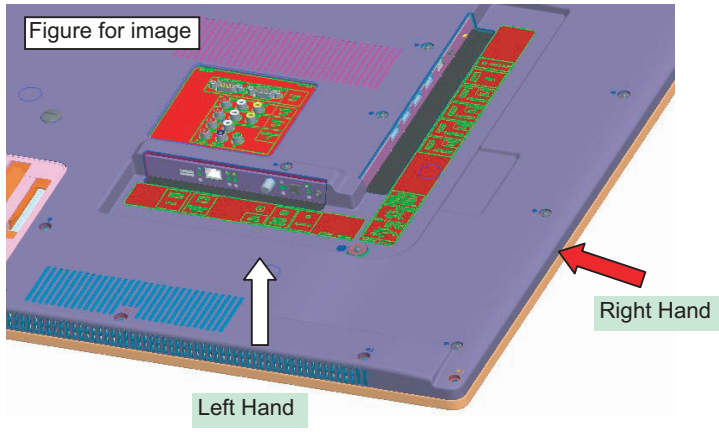


2. Set the right hand between Front Cabinet and Rear Cabinet on the right side in the under corner.



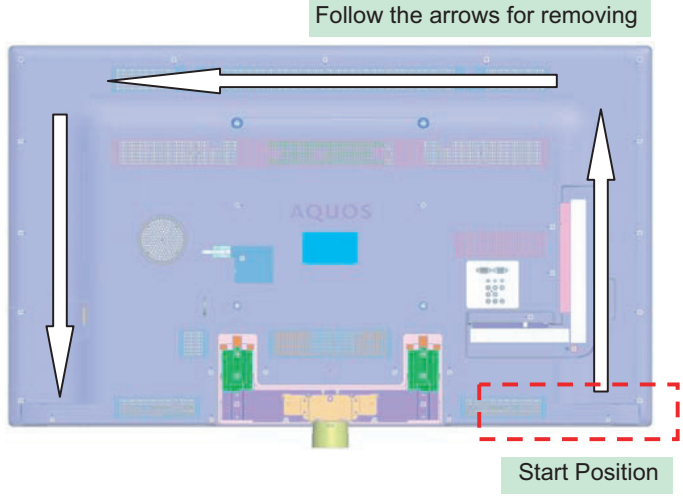
3. Push Rear Cabinet toward the center of TV set with right hand. At the same time, open Rear Cabinet in the back side with left hand and detach the hook.





4. Detach the hooks one by one in a counterclockwise direction with changing the position of right hand.





CHAPTER 5. ADJUSTMENT

[1] ADJUSTMENT PROCEDURE

1. Adjustment method after PWB and/or IC replacement due to repair

The unit is set to the optimum at the time of shipment from the factory.

If any value should become improper or any adjustment is necessary due to the part replacement, make an adjustment according to the following procedure.

1. Procure the following units in order to replace the main unit.

 MAIN UNIT: DKEYDF733FM51 (LC-52/60LE830E, RU)

 MAIN UNIT: DKEYDF733FM52 (LC52/60LE831E, S)

 MAIN UNIT: DKEYDF733FM54 (LC-52/60LE833E)

NOTE: [Caution when replacing IC (IC2001) in the main unit]

The above IC are Monitor microcomputer.

Before replacing the relevant part, procure the following parts in which the data have been rewritten.

IC2001	RH-iXD241WJN2Q	Monitor microcomputer

NOTE: [Caution when replacing ICs (IC8401, IC3303) in the main unit]

When replacing either IC8401 or IC3302, exchange MAIN units for DKEYDF733FM51 (LC-40/46LE830E, RU), DKEYDF733FM52 (LC-40/46LE831E, S), DKEYDF733FM54 (LC-52/60LE833E).

Each part should not be individually exchanged.

IC8401	RH-iXD287WJQZQ	Flash
IC3303	RH-iXD220WJQZQ	Main CPU

NOTE: HDMI ROM Writing

After replacing IC1504, execute “HDMI EDID WRITE” on the page 5/24.

Please execute it after checking MODEL NAME & INCH SIZE. are correct.

If MODEL NAME & INCH SIZE. are not correct, set them previously. (Refer to 2.)

The ROM data based on information of MODEL NAME & INCH SIZE.

1) Enter the process adjustment mode in TV.
2) Use the cursor keys (▲ / ▼) and CH keys (﹀ / ﹀) of R/C to select the item [HDMI EDID WRITE] on the page 5/24.
3) It is completed with OK displayed.

2. After replacing the LCD panel or LCD control/MAIN UNIT, check MODEL NAME in the following procedure.
 1) Enter the process adjustment mode in TV.
 2) Use the cursor keys (▲ / ▼) and CH keys (﹀ / ﹀) of R/C to select the item [MODEL NAME] on the page 24/24.
 3) Verify that the Model name is displayed.
 * For LC-52/60LE830E, LC-52/60LE831E, LC-52/60LE833E series,
 [MODEL NAME] should be LE830E or LE831E or LE833E.
 (Don't select LE830E[A] or LE831E[A] or LE833E[A].)
 4) If the Model name doesn’t match, select the values of the Model name with the VOL keys (+/-).
 5) After selection in Step 4), press the OK key, and it is completed with OK displayed.
 6) Use the cursor keys (▲ / ▼) and CH keys (﹀ / ﹀) of R/C to select the item [PANEL_SIZE] on the page 24/24.
 7) Verify that the panel size is displayed.
 8) If the size doesn’t match, select the values of the panel size with the VOL keys (+/-).
 9) After selection in Step 8), press the OK key, and it is completed with OK displayed.
 10) After setting [MODEL NAME] [PANEL_SIZE], unplug the AC power cord and plug it back in.
3. After replacing the LCD panel or LCD control PWB, adjust the VCOM in the following procedure.
 1) Enter the process adjustment mode.
 2) Use the cursor keys (▲ / ▼) and CH keys (﹀ / ﹀) of R/C to select the item [VCOM ADJ] on the page 10/24.
 3) Press the OK key to verify that the adjustment pattern is displayed.
 4) Use VOL keys (+/-) of R/C to adjust the flicker in the center of the screen to minimum.
 5) When the optimal state is achieved in Step 4), press the OK key to turn the pattern to OFF.

2. Notes of Touch sensor key unit

Touch sensor key unit (RUNTKA869WJQZ) is fixed directly in Front Cabinet.

The unit cannot never be recycled when exfoliated from Front Cabinet.

Therefore, please exchange the touch sensor units when Front Cabinet is changed.

3. Method of shuts down for Power supply

Please execute the following procedures to shut down Power supply from the state of normal operation.

1) Keep touching the power supply key on the set for 5 seconds from the state of watching.
 * The screen disappears when power supply key is touched, but Keep pushing the power supply key.
2) A central icon lights between 500ms when the power supply shuts down.
 Please separate the finger from the power supply key when lighting of a central icon is confirmed.

4. Entering and exiting the adjustment process mode

Please execute the following procedures to enter the adjustment process mode when the power supply shuts down.

1) While holding down the “VOL (-)” and “INPUT” keys on the set at once, touch the power supply key on the set.
 Please separate the fingers from key on the set when boot-up is confirmed with lighting of a central icon etc.
 After a while, The letter “K” appears on the screen. This state is in **Inspection mode.**
2) Next, hold down the “VOL (-)” and “CH (﹀)” keys on the set at once.
 Multiple lines of blue characters appearing on the screen indicate that the set is now in **the adjustment Process mode.**
 If you fail to enter the adjustment process mode (the display is the same as normal startup), retry the procedure.
3) To exit the adjustment process mode after the adjustment is done, unplug the AC power cord to force off the power.
 (When the power is turned off with the remote controller, once unplug the AC power cord and plug it in again. In this case, wait for 20 seconds or so after unplugging.)

CAUTION: Use due care in handling the information described here lest the users should know how to enter the adjustment process mode.
If the settings are tampered with in this mode, unrecoverable system damage may result.

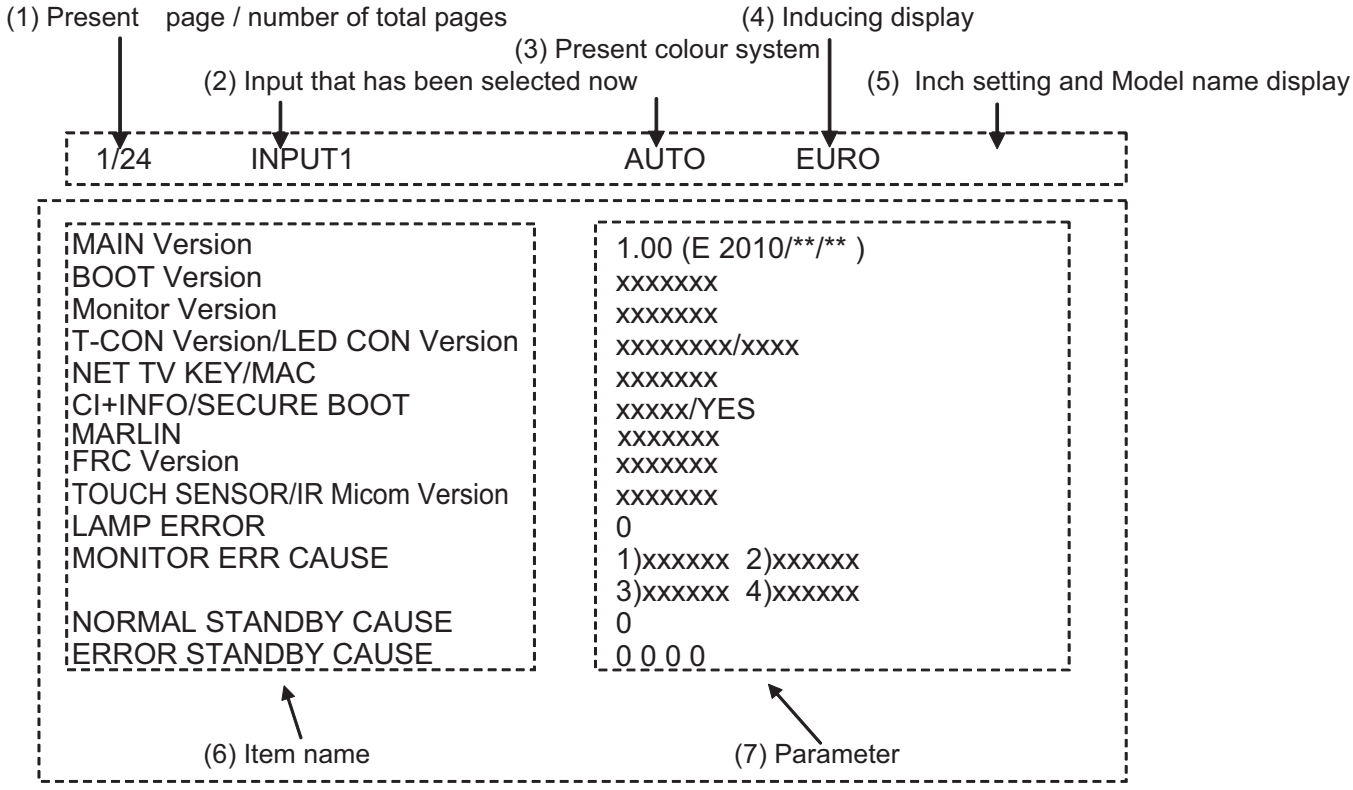
5. Remote controller key operation and description of display in adjustment process mode

1. Key operation

Remote controller key	Main unit key	Remote controller key Main unit key Function
CH keys (﹀/﹀)	CH (﹀/﹀)	Moving an item (line) by one (UP/DOWN)
VOL keys (+/-)	VOL (+/-)	Changing a selected item setting (+1/-1)
Cursor (▲/▼)	—	Turning a page (PREVIOUS/NEXT)
Cursor (◄/►)	—	Changing a selected line setting (+10/-10)
INPUT	INPUT	Input source switching (toggle switching) (TV→EXT1→ etc...)
OK	—	Executing a function
RETURN	—	Returning to a present page

Input mode is switched automatically when relevant adjustment is started so far as the necessary input signal is available.

6. Description of display



No.	Description	Display specification
(1)	Present page/number of total pages	2char/2char Decimal Number mark.
(2)	Input that has been selected now	TUNER/DTV/INPUT1/INPUT2/INPUT3/INPUT5/INPUT6/INPUT7/etc. ···
(3)	Present colour system	AUTO/N358/N443/PAL/SECAM/480i/580i/1080i/50 etc. ···
(4)	Inducing display	EUROPE/RUSSIA/SWEDEN
(5)	Inch setting and Model name display	Inch setting and Model name display
(6)	Item name	Max. 30 char
(7)	Parameter	Max. 60 char

7. List of adjustment process mode menu

The character string in brackets [] will appear as a page title in the adjustment process menu header.

Page	Line	Item	Description	Remarks (adjustment detail, etc.)
1/24		[INFO]		
	1	MAIN Version	1xxx(xxxxx)	Main software version
	2	BOOT Version	xxxxxxx	BOOT Version.
	3	Monitor Version	xxxxxxx	Monitor software version
	4	T-CON Version/LED CON Version	xxxxxxxx/xxxx	T-CON/LED CON Version
	5	NET TV KEY / MAC	xxxxxxx	NET TV KEY / MAC Address
	6	CI+INFO/SECURE BOOT	xxxxx/YES	CI+ Key Information/SECURE BOOT
	7	MARLIN	xxxxxxx	
	8	FRC Version	xxxxxxx	
	9	TOUCH SENSOR / IR Micom Version	xxxxxxx	
	10	LAMP ERROR	0	Number of termination due to lamp error.
	11	MONITOR ERR CAUSE	1)xxxxxx 2)xxxxxx 3)xxxxxx 4)xxxxxx	Last error standby cause.
	12	NORMAL STANDBY CAUSE	0	Situation that became standby at the end. (Excluding the error)
	13	ERROR STANDBY CAUSE	0 0 0 0	Error standby cause
2/24		[INIT]		
	1	INDUSTRY INIT	Enter	Initialization to factory settings execution.
	2	INDUSTRY INIT(-Public)	OFF	Initialization to factory settings execution.(Public mode is excluded)
	3	PUBLIC MODE	OFF	Public mode ON/OFF setting
	4	Center Acutime	-	Main operating hours.
	5	RESET	OFF	Main operating hours reset.
	6	Backlight Acutime	-	Backlight operating hours.
	7	RESET	OFF	Backlight operating hours reset.
	8	LAMP ERROR RESET	OFF	Lamp error reset.
	9	ADJ PARAM SET	Enter	ADJ PARAM SET
	10	VIC XPOS	0	X-coordinate setting for VIC READ
	11	VIC YPOS	0	Y-coordinate setting for VIC READ
	12	VIC SIGNAL TYPE	MAIN	Signal type setting for VIC READ
	13	VIC READ	OFF	Picture level acquisition function (Level appears in green on the upper right)
3/24		[TUNER ADJ]		
	1	TUNER ADJ	Enter	TUNER auto adjustment execution
	2	PAL+TUNER ADJ	Enter	PAL TUNER auto adjustment execution
	3	TUNER ADJ(SMPTE)	Enter	TUNER auto adjustment execution (SMPTE)
	4	PAL+TUNER ADJ(SMPTE)	Enter	PAL TUNER auto adjustment execution (SMPTE)
	5	TUNER ADJ(SMPTE CH57)	Enter	TUNER auto adjustment execution (SMPTE CH57)
	6	PAL+TUNER ADJ(SMPTE CH57)	Enter	PAL TUNER auto adjustment execution (SMPTE CH57)
	7	TUNER CONTRAST A_GAIN	14	TUNER signal level adjustment
	8	TUNER CONTRAST D_GAIN	2048	TUNER signal level adjustment
	9	TUNER CONTRAST OFFSET	256	TUNER signal level adjustment
4/24		[PAL MAIN]		
	1	PAL ADJ	Enter	PAL adjustment
	2	SECAM ADJ	Enter	SECAM adjustment
	3	N358 ADJ	Enter	N358 adjustment
	4	PAL CONTRAST A_GAIN	14	PAL contrast adjustment
	5	PAL CONTRAST D_GAIN	2048	PAL contrast adjustment
	6	PAL CONTRAST OFFSET	256	PAL contrast adjustment
	7	SECAM CONTRAST A_GAIN	14	SECAM contrast adjustment
	8	SECAM CONTRAST D_GAIN	2048	SECAM contrast adjustment
	9	SECAM CONTRAST OFFSET	256	SECAM contrast adjustment
	10	N358 CONTRAST A_GAIN	14	N358 contrast adjustment
	11	N358 CONTRAST D_GAIN	2048	N358 contrast adjustment
	12	N358 CONTRAST OFFSET	256	N358 contrast adjustment
5/24		[CEC TEST]		
	1	HDMI CEC TEST	Enter	HDMI CEC test
	2	HDMI EDID WRITE	Enter	HDMI EDID WRITING
	3	INSPECT USB TERM	Enter	Reading inspection of USB memory terminal
	4	MONIDATA READ[TEMP/OPC]	OFF	MONITOR Temperature/ OPC Acquisition tool.
	5	SD CARD TEST	Enter	SD CARD TEST
	6	CAUSE RESET	Enter	Reset of standby cause

Page	Line	Item	Description	Remarks (adjustment detail, etc.)
6/24		[COMP15KMAIN]		
	1	COMP15K ALL ADJ	Enter	Component 15K picture level adjustment
	2	COMP15K MAIN Y GAIN	140	Y GAIN adjustment value
	3	COMP15K MAIN CB GAIN	150	Cb GAIN adjustment value
	4	COMP15K MAIN CR GAIN	150	Cr GAIN adjustment value
	5	COMP15K Y OFFSET	64	Y OFFSET adjustment value
	6	COMP15K CB OFFSET	128	Cb OFFSET adjustment value
	7	COMP15K CR OFFSET	128	Cr OFFSET adjustment value
7/24		[HDTV]		
	1	HDTV ADJ	Enter	HDTV video level adjustment
	2	HDTV Y GAIN	140	HDTV Y GAIN adjustment value
	3	HDTV CB GAIN	150	HDTV Cb adjustment value
	4	HDTV CR GAIN	150	HDTV Cr adjustment value
	5	HDTV Y OFFSET	64	HDTV Y OFFSET adjustment value
	6	HDTV CB OFFSET	128	HDTV Cb OFFSET adjustment value
	7	HDTV CR OFFSET	128	HDTV Cr OFFSET adjustment value
8/24		[ANALOG PC]		
	1	ANALOG PC ADJ	Enter	DVI ANALOG video level adjustment
	2	R OFFSET	64	R CUTOFF adjustment value
	3	G OFFSET	64	G CUTOFF adjustment value
	4	B OFFSET	64	B CUTOFF adjustment value
	5	R GAIN	44	R DRIVE adjustment value
	6	G GAIN	44	G DRIVE adjustment value
	7	B GAIN	44	B DRIVE adjustment value
9/24		[SCART]		
	1	SCART RGB ADJ	Enter	SCART RGB level adjustment
	2	SCART RGB ADJ (FASTSW)	Enter	SCART RGB ADJ (FASTSW) adjustment
	3	SCART R CUTOFF	64	SCART R CUTOFF adjustment value
	4	SCART G CUTOFF	64	SCART G CUTOFF adjustment value
	5	SCART B CUTOFF	64	SCART B CUTOFF adjustment value
	6	SCART R GAIN	44	SCART R GAIN adjustment value
	7	SCART G GAIN	44	SCART G GAIN adjustment value
	8	SCART B GAIN	44	SCART B GAIN adjustment value
10/24		[LUMAADJ]		
	1	VCOM ADJ (2D)	0	Common bias adjustment (2D)
		VCOM ADJ (3D)	0	Common bias adjustment (3D)
		LCD LUMA UP	0	
		LCD LUMA DOWN	0	
11/24		[LEV]		
	1	R GAIN (LO)	0	R DRIVE adjustment value
	2	G GAIN (LO)	0	G DRIVE adjustment value
	3	B GAIN (LO)	0	B DRIVE adjustment value
	4	R GAIN (HI)	0	R DRIVE adjustment value
	5	G GAIN (HI)	0	G DRIVE adjustment value
	6	B GAIN (HI)	0	B DRIVE adjustment value
12/24		[M EEP SET]		
	1	MONITOR TIME OUT	ON	Monitor and the main communication time-out setting
	2	MONITOR MAX TEMP	59	MONITOR MAX temperature setting
	3	MONITOR EEP READ / WRITE	WRITE	MONITOR EEPROM READ/WRITE Setting/execution
	4	MONITOR EEP ADR	0x 0	MONITOR EEPROM arbitrary addressing
	5	MONITOR EEP DATA	0x 0	MONITOR EEPROM arbitrary data specification
13/24		[M TEST PATTERN]		
	1	LCD TEST PATTERN	OFF	Pattern with built-in LCD controller display
	2	LCD TEST PATTERN1	OFF	
	3	LCD TEST PATTERN2	OFF	
	4	LCD TEST PATTERN3	OFF	
	5	LCD TEST PATTERN4	NOT SUPPORT	
14/24				
	1	TCON Version EXT.1	xxxxx	
	2	TCON Version EXT.2	xxxxx	
	3	TCON Version EXT.3	xxxxx	
	4	TCON Version EXT.4	xxxxx	

Page	Line	Item	Description	Remarks (adjustment detail, etc.)
15/24				
	1	3DHDMI FPGA Version	xxxxx	
	2	2D→3D FPGA Version	xxxxx	
	3	3D IR EMITTER CONTROL	xxxxx	
16/24		[FR REGI]		
	1	POWER LED BRIGHTNESS	0	
	2	MENU LED BRIGHTNESS	0	
	3	INPUT LED BRIGHTNESS	0	
	4	CH UP LED BRIGHTNESS	0	
	5	CH DOWN LED BRIGHTNESS	0	
	6	VOL UP LED BRIGHTNESS	0	
	7	VOL DOWN LED BRIGHTNESS	0	
	8	LOGO LED BRIGHTNESS	99	
	9	ICON LED BRIGHTNESS	99	
	10	ICON LED BRIGHTNESS(STANDBY)	30	
	11	3D LED BRIGHTNESS	30	
17/24		[FR REGI]		
	1	POWER KEY SENSITIVITY	0	
	2	MENU KEY SENSITIVITY	0	
	3	INPUT KEY SENSITIVITY	0	
	4	CH UP KEY SENSITIVITY	0	
	5	CH DOWN KEY SENSITIVITY	0	
	6	VOL UP KEY SENSITIVITY	0	
	7	VOL DOWN KEY SENSITIVITY	0	
18/24		[FR REGI]		
	1	KEY STRENGTH GET MODE	Enter	
	2	POWER KEY STRENGTH		
	3	MENU KEY STRENGTH		
	4	INPUT KEY STRENGTH		
	5	CH UP KEY STRENGTH		
	6	CH DOWN KEY STRENGTH		
	7	VOL UP KEY STRENGTH		
	8	VOL DOWN KEY STRENGTH		
19/24		[FR REGI]		
	1	CROSSTALK ADJ MODE	Enter	
	2	CROSSTALK TH1		
	3	CROSSTALK TH2		
	4	CROSSTALK TH3		
	5	CROSSTALK TH4		
	6	CROSSTALK GAIN1		
	7	CROSSTALK GAIN2		
	8	CROSSTALK GAIN3		
20/24				
	1	WIFI SSID 2.4GHz	xxxxx	
	2	WIFI SSID 5 GHz	xxxxx	
	3	WIFI RSSI 2.4GHz	xxxxx	
	4	WIFI RSSI 5 GHz	xxxxx	
	5	WIFI TIME 5 GHz	xxxxx	
	6	WIFI RSSI TEST	xxxxx	
	7	WIFI RSSI RESULT	xxxxx	
21/24				
	1	READ/WRITE	READ	Read/Write
	2	SLAVE/ADDRESS	SLAVE0	Slave address
	3	REGISTER ADDRESS	0x 0 0x 0	Register address
	4	WRITE DATA	0x 0 0x 0	Writing data
	5	READ DATA	0x 0 0x 0	Reading data
22/24				
	1	RF AGC BG	6	RF-AGC BG adjustment execution
	2	RF AGC DK	5	RF-AGC DKG adjustment execution
	3	RF AGC I	6	RF-AGC I adjustment execution
	4	RF AGC L/L'	4	RF-AGC L/L' adjustment execution

Page	Line	Item	Description	Remarks (adjustment detail, etc.)
23/24		[ETC]		
	1	ERROR STANDBY CAUSE1	NO RECORD	ERROR STANDBY CAUSE
	2	ERROR STANDBY CAUSE2	NO RECORD	
	3	ERROR STANDBY CAUSE3	NO RECORD	
	4	ERROR STANDBY CAUSE4	NO RECORD	
	5	ERROR STANDBY CAUSE5	NO RECORD	
	6	STANDBY CAUSE RESET	OFF	Reset stand by cause.
24/24		[ETC]		
	1	EEP SAVE	OFF	Writing setting values to EEPROM.
	2	EEP RECOVER	OFF	Reading setting values from EEPROM.
	3	MONITOR ERROR CAUSE RESET	OFF	Reset of monitor error cause
	4	MODEL NAME	LE830E	MODEL NAME
	5	PANEL SIZE	46	Panel size setting.
	6	PANEL LIMIT	ON	PANEL LIMIT
	7	PANEL RANGE LIMIT	xxx	PANEL RANGE LIMIT
	8	SHORT CHECK MODE	Enter	Check LED Back light
	9	SHORT CHECK CURRENT	60	
	10	CURRENT SW	LOW	
	11	PRODUCT EEP ADR	0x 0	Don't touch when serving (for producer of factory)
	12	PRODUCT EEP DATA	0x 0	Don't touch when serving (for producer of factory)
	13	PRODUCT FACTORY	1	Don't touch when serving (for producer of factory)

8. Special features

1. NORMAL STANDBY CAUSE (Page 1/24)

 Display of a cause (code) of the last standby.

 The cause of the last standby is recorded in EEPROM whenever it is possible.

 Checking this code will be useful in finding a problem when you repair the troubled set.

2. EEP SAVE (Page 24/24)

 Storage of EEP adjustment value.

3. EEP RECOVER (Page 24/24)

 Retrieval of EEP adjustment value from storage area.

4. MONITOR ERR CAUSE (Page 1/24)

 Display of a cause (code) of Error from Monitor microcomputer.

 The cause of Error is recorded in EEPROM whenever it is possible.

 Checking this code will be useful in finding a problem when you repair the troubled set.

 1) This displays Error code and time when the error occurred.

 The latest error is displayed on “1)”.

 The error that happens ahead of “1)” is displayed on “2)”.

 2) The character depends on the way how to acquire Time Information.

 T: Time is acquired from digital broadcasting
 This doesn’t contain “Time offset” which is considered a time difference and Daylight-Saving Time, etc. ...

 U: Time is acquired from analog broadcasting (teletext)

 B: Accumulation time of Backlight
 In the case that Time information cannot be acquired, “B” is displayed.

 Example) In this example, it is shown that the error occurred 3 times.

 1) 16 T07/01/01 12:03 Error code: 16 (lamp error) Time: 07/01/01 12:03
 * It is latest Error.
 * Time is acquired from digital broadcasting.
 * Time is UTC which doesn't have Time offset.

 2) 16 U01/01/01 04:07 Error code: 16 (lamp error) Time: 07/01/01 04:07
 * It is Error that happens ahead of “1)”.
 * Time is acquired from analogue broadcasting.

 3) 16 B00000004:11 Error code: 16 (lamp error) Accumulation time: It is displayed that 4:11 have passed after Backlight driving.
 * It is Error that happens ahead of “2)”.

 4) 00 0000000000000 No error (“00” shows that the error is not occurred.)

9. Lamp Error detection

1. Function

This LCD color TV set incorporates a Lamp error detection feature that automatically turns off the power for safety under abnormal lamp or lamp circuit conditions. If by any chance anything is wrong with the lamp or lamp circuit or if the lamp error detection feature is activated for some reason, the following will result.

1) The power is interrupted in about 500ms after it is turned on.
 (A central icon on the front of the TV flash on and off.: ON for 400ms and OFF for 1600ms.)
2) If the above phenomenon 1) occurs 5 times, it becomes impossible to turn on the power.
 (A central icon keep flashing on/off.)

2. Measures

1) Set the lamp error detection to OFF

Enter the adjustment process mode, referring to “4. Entering and exiting the adjustment process mode”.

The adjustment process mode can ignore “5 times count”, so If the above phenomenon 1) occurs 1~4 times, the lamp will go out.

If Lamp Error detection pin [4pin of PD: P9602/19pin of IC2001] is “High” by a trouble with the lamp and lamp circuit, it can boot-up by the adjustment process mode.

Please execute **“Lamp Error detection off-mode”**.

While holding down the “VOL (-)” and “CH (∧)” keys on the set at once, touch the power supply key on the set.

After a central icon flash off, separate the fingers from key on the set.

Then, you can check the operation to see if the lamp and lamp circuit are in trouble.

If you fail boot-up, retry the procedure.

2) Resetting the lamp error count

After the lamp and lamp circuit are improved from a trouble, reset the lamp error count.

(Because the power cannot be turned on, if a lamp error is detected 5 consecutive times.)

a) Enter the adjustment process mode, referring to “4. Entering and exiting the adjustment process mode”.

b) Using the cursor (▲/▼) key, move to the cursor to [LAMP ERROR RESET], Line 8 on adjustment process mode service page 2/24.

c) With the cursor (◄/►) keys, select the [LAMP ERROR RESET] value.

Finally press the cursor (OK)., the count is reset.

Check LAMP ERROR Count on adjustment process mode Page 2/24.

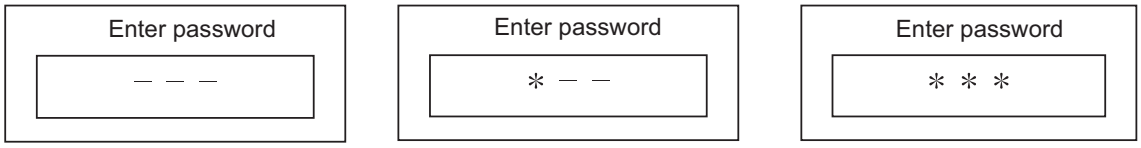
Table of contents of adjustment process mode Page 2/24

INDUSTRY INIT	Enter	
INDUSTRY INIT (-Publicl)	OFF	
PUBLIC MODE	OFF	
Center Acutime	—	
RESET	OFF	
Backlight Acutime	—	
RESET	OFF	
LAMP ERROR RESET	OFF	← Resetting to "0"
ADJ PARAM SET	Enter	
VIC XPOS	0	
VIC YPOS	0	
VIC SIGNAL TYPE	MAIN	
VIC READ	OFF	

10. Public Mode

1. Starting the Public Mode
 - There are two following ways to display the PUBLIC Mode setting screen.

 1) Method of needing password
 a) Turn off the power, refer to “3. Method of shuts down for Power supply”.
 b) While holding down the “INPUT” and “Volume (+)” keys on the set at once, touch the power supply key on the set.
 Please separate the finger from the power supply key when boot-up is confirmed with lighting of a central icon etc.
 After a while, value of Enter password appears on the screen.
 c) Display the Pass Word input screen.



 Operation procedure
 - The initial input position is the digit at the left end.
 - For the numeric keys “0” to “9” of R/C, key input is accepted.
 Input of the other keys is prohibited.
 - Change “—” to “✻” by inputting the numeric key at the input position, and shift the input position rightward one digit.
 - When three digits are completely input, the Pass Word is judged.

 d) Check the Pass Word by inputting three digits.
 If the Pass Word “0” “2” “7”, it shifts to the PUBLIC Mode setting screen.
 In another case, the screen is erased, and it operates in the ordinary mode.

2. Exiting the Public Mode Setting screen
 - There are two following ways to exit the Public Mode setting screen.

 1) Turn off the power.
 2) Select “Execution” in the PUBLIC_Mode to execute it.
 Activate the restart under the set content.
 Here, the START input SOURCE setting is excluded since this item is referred to only when the power is turned on.

3. Set value of the Public Mode
 - When the shipment setting is done, a set each value in Public Mode is initialized.
 (PUBLIC MODE in the process mode Setting of a flag is also initialized)
 - Separately, the shipment beginnings when all except for each set value in Public Mode is initialized are provided for a process mode.
 (INDUSTRY INIT (-Public))
 - Only when turning on the PUBLIC MODE item, each setting is effective.
 - After it decides it with EXECUTE, it AC OFF/ON it to reflect a set value.

4. Basic operation in the Public Mode

Vol (+/-) or Cursor (◄/►)	Change or execution of the set value.
CH (+/-) or Cursor (▲/▼)	Movement to the selected item.
Decision (ok)	Excution (Used by the items "Execution" and "RESET".)

Public Mode setting screen.

Public Mode	
POWER ON FIXED	[VARIABLE]
SHUT DOWN MODE	[NORMAL]
MAXIMUM VOLUME	[60]
VOLUME FIXED	[VARIABLE]
VOLUME FIXED LEVEL	[20]
RC BUTTON	[RESPOND]
PANEL BUTTON	[RESPOND]
MENU BUTTON	[RESPOND]
AV POSITION FIXED	[VARIABLE]
ON SCREEN DISPLAY	[YES]
INPUT MODE START	[NORMAL]
INPUT MODE FIXED	[VARIABLE]
LOUD SPEAKER	[ON]
RC PATH THROUGH	[OFF]
232C POWON	[DISABLE]
PUBLIC MODE	[ON]
RESET	
EXECUTE	

5. Operation after “RESET”

Select “RESET” in the PUBLIC Mode, and it operates as follows when it is executed (refer to the basic operation).

- The set contents in the PUBLIC mode are initialized.
- It does not exit the PUBLIC mode.
- If “EXCUTE” is not executed, the content that does RESET is not reflected.

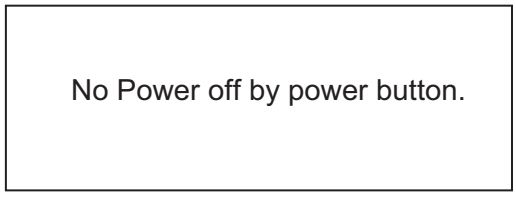
6. Setting items. (* Item names and selective items are expressed in English.)

1) Power ON fixed [POWER ON FIXED]

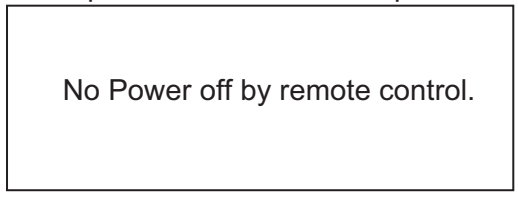
Option	“VARIABLE”, “FIXED_ALL”, “FIXED_BODYKEY” or “RCRESPOND” (loop enabled)
Default	“VARIABLE”
Function	• VARIABLE : “POWER/RECEPTION” key on TV unit or remote control is enabled. • FIXED_ALL : “POWER/RECEPTION” key on TV unit or remote control is disabled. • FIXED_BODYKEY : Only the “MAIN POWER” key on TV unit is disabled (The remote control is enabled). • RC RESPOND : The main unit’s POWER switch toggles between ON and Standby (the same operation by the remote control).
Key disabled when set other than default	• OFF TIMER (SLEEP) (*Only when setting to FIXED_ALL)
Remarks	• When selecting to “FIXED_ALL”, function related standby factors (see below) doesn’t work. and not selecting. OFF TIMER (Sleep) No operation OFF No signal OFF (including the power management) * These items does not exist according to the model.

If the power button is pressed in the ordinary mode in setting to “FIXED_ALL” and “FIXED_BODYKEY”, the caution is displayed for 5 seconds.

When power button on the main unit is pressed



When power button on R/C is pressed



* The OSD display is an example.

If another ODS is previously displayed, the status is reset (MENU or similar).

2) Instantaneous current shutdown setting in turning off the power [SHUT DOWN MODE]

Option	“NORMAL” or “QUICK”
Default	NORMAL
Function	• This function decides whether scanning digital tuner is enabled or disabled when the power is standby.
	NORMAL : Scanning digital tuner is enabled when the power is standby. QUICK : Scanning digital tuner is disable. It is possible to put into the standby state instantaneously due to power off input, when the power is standby. Immediately, state is a complete standby.
Remarks	In selecting “QUICK”, the function does not work for the following items. (selection impossible.) • ON TIMER, QUICK START, DIGITAL FIXED, etc. * These items does not exist according to the model.

3) Volume maximum level [MAXIMUM VOLUME]

Option	0~60 (loop disabled)
Default	60
Function	The volume cannot be increased more than the adjusted value (the main unit’s speaker only).
Remarks	• When setting to 59 or less, only the figure is displayed in the normal mode; the volume bar is not displayed. • The volume of the headphones is limited. • The setting is impossible when VOLUME FIXED is set to FIXED.

4) Volume fixed [VOLUME FIXED]

Option	"VARIABLE", "FIXED", "ACCTRL" or "AC/RCCTRL" (loop enabled)
Default	"VARIABLE"
Function	• VARIABLE : The volume is not fixed. • FIXED : The volume is fixed to the value adjusted in the volume fixed level. • AC CTRL : The unit starts at the volume specified in the volume fixed level, when power is turned on in the case of the AC-ON only. • AC/RC CTRL : The unit starts at the volume specified in the volume fixed level, when power is turned on in any case. (AC→ON, remote control→ON, main utit's key→ON)
Exception	• In the adjustment process, the volume can be set to any level regardless of this setting.
Disabled key when setting to FIXED	• VOLUME UP/DOWN [both remote control and main unit] • MUTE * Main units's key is enabled for operating menu.
Remarks	• [MAXIMUM VOLUME] has priority to [VOLUME FIXED] * When setting to FIXED, Maximum volume is fixed. • The volume of the headphones is fixed. • When setting to "FIXED", the volume is not displayed in operating Disabled key. • In menu operation, the main unit's keys (Vol (+/-)) are enabled.

5) Volume fixed level [VOLUME FIXED LEVEL]

Option	0~60 (loop disabled)
Default	20
Function	The volume is fixed to the adjusted value (the main unit's speaker only).
Exception	• In the adjustment process, the volume can be set to any level regardless of this setting.
Remarks	• When [VOLUME FIXED] is set to "VARIABLE", the setting cannot be changed.

6) Remote control operation [RC BUTTON]

Option	"RESPOND", "NORESPOND" or "LIMITED" (loop enabled)
Default	"RESPOND"
Function	The operation of the remote control's keys is set. RESPOND : The remote control's keys in the normal state are enabled. NO RESPOND : The remote control's keys in the normal state are disabled. The POWER key (RECEPTION/STANDBY key) is also disabled. LIMITED : Only a part of keys (CHANNEL, etc.) is enabled and other keys are disabled.
Exception	• All the keys are enabled regardless of this setting while entering the adjustment process mode, inspection mode or Public Mode setting screen.
Remarks	The enable keys when setting to "LIMITED" are depended on Model.

7) Main Unit Operation [PANEL BUTTON]

Option	"RESPOND" or "NO RESPOND" (loop enabled)
Default	"RESPOND"
Function	• RESPOND : The main unit's keys are enabled. • NO RESPOND : The main unit's keys are disabled excluding the POWER key (RECEPTION/STANDBY key).
Exception	• The start operation in the adjustment process mode, inspection mode are enabled regardless of this setting. • All the keys are enabled regardless of this setting while entering the adjustment process mode, inspection mode or Public Mode setting screen. • For the models with the MENU key on the main unit, menu operation is possible regardless of the setting during the initial setting when the power is turned on for the first time.

8) Menu operation [MENU BUTTON]

Option	“RESPOND” or “NO RESPOND” (loop enabled)
Default	“RESPOND”
Function	The MENU key on the main unit and remote control is decided whether it is enabled or disabled.
Exception	• RESPOND : The manu key is enabled. • NO RESPOND : The manu key is disabled. : All the keys are enabled regardless of this setting while entering the process mode, inspection mode or Public Mode setting screen.
Disabled key excluding Menu key when setting to not default	All the direct transition keys to menu display. (AUTO PRESET, MANUAL MEMORY and others) * These keys does not exist according to the model.
Remarks	When setting to “NO RESPOND” • For the models with the MENU key on the main unit, menu operation is possible regardless of the setting while the initial setting when the power is turned on for the first time.

9) AV position fixed [AV POSITION FIXED]

Option	“VARIABLE” or “FIXED” (loop enabled)
Default	“VARIABLE”
Function	• VARIABLE : AV position is not fixed. • FIXED : AV position is fixed. : The image/sound adjustment items in the menu are fixed in the selected state. : When receiving “AV POSITION” of the remote control, only the actual state is displayed, and setting is not changed.
Remarks	• When receiving the sound select direct keys (AV POSITION key, OPC, DOLBY key, etc.), only the actual state is displayed; no setting is changed. * These keys does not exist according to the model. • The settings for the Public mode are retained after the personal data is initialized, each item for the AV position and image/sound adjustment are not initialized.

10) OSD display [ON SCREEN DISPLAY]

Option	“YES”, “NO” or “LIMITED” (loop enabled) “LIMITED” is looped only in case of need (destination).
Default	“YES”
Function	• YES : OSD is displayed. • NO : The following OSD is not displayed. Registration, setting, adjustment menu, channel call, volume bar, and input select. • LIMITED : Only a part of OSD (CH call: “New Information” etc...) is not displayed.
Key which may be enabled (Example of the confusing key)	• It is OK in the case that simple input select occur or the original state returns soon automatically.
Disabled key when setting to not default	• When setting to “NO”, the keys which is related to visibility of the screen and sound cannot be used. STILL IMAGE, SCREEN DISPLAY, OFF TIMER, AV POSITION, BRIGHTNESS SENSOR, SCREEN SIZE SELECT, AUTO PRESET, MANUAL MEMORY, IMAGE SELECT, SOUND SELECT, LANGUAGE, Closed caution * Disabled keys dependeds on the models.
Remarks	• When setting to “NO”, ON TIMER (Watching reservation) is cleared. OFF TIMER “SLEEP” is cleared. * These items does not exist according to the model. • When setting to “NO”, These Displays (Version-up, Public mode setting screen, Pass Word input screen of Public Mode, the adjustment process mode, K mark of inspection mode) are enabled regardless of this setting.

11) Start mode [INPUT MODE START]

Option	“NORMAL” or “Input source 1 (input selection or channel)” ... (loop enabled)
Default	“NORMAL”
Function	Which kinds of input source or channel is decided when the power turning on. NORMAL : The content of the last memory is followed.
Remarks	• When setting to not Normal, ON TIMER (Watching reservation) has priority. • When setting to “NORMAL”, [INPUT MODE FIXED] is set to “VARIABLE” and [INPUT MODE FIXED] is prohibited to select. (selection impossible.)

Example of option: “NORMAL”, “TVD (002TV)”, “INPUT1”, “INPUT2”, “INPUT3”, “HDMI1”, “HDMI2”, “HDMI3”, “HDMI4”.

12) Input fixed [INPUT MODE FIXED]

Option	“VARIABLE”, “FIXED”, “ACCTRL” or “AC/RCCTRL” (loop enabled)
Default	VARIABLE
Function	VARIABLE : If [INPUT MODE START] is set to Normal, input mode is not fixed. FIXED : When “INPUT MODESTART” is active, it is impossible to switch to another channel or input source. AC CTRL : When “INPUT MODESTART” is active the unit starts at the input mode which is selected when power is turned on in the case of the AC-ON only. AC/RC CTRL : When “INPUT MODESTART” is active the unit starts at the input mode which is selected when power is turned on in any case. (AC→ON, remote control→ON, main utit's key→ON)
Disabled key when setting to “FIXED”	CHANNEL (+/-), DIRECT CHANNEL buttons, FLASHBACK, INPUT SELECT, TV/VIDEO, AUTO PRESET, MANUAL MEMORY, i.LINK, DIRECTINPUTSELECT, ATV, DTV, EPG, RADIO etc...
Remarks	• If [INPUT MODE START] is Normal, this function cannot be set. Set to “VARIABLE” automatically. • When setting to “FIXED”, The item related to the channel setting and input selection in Menu are not displayed. ON TIMER (Watching reservation) is not active. * These items does not exist according to the model.

13) Speaker ON/OFF selection [LOUD SPEAKER]

Option	“ON” or “OFF” (loop enabled)
Default	ON
Function	ON : The sound from the speakers is output. OFF : The sound from the speakers is not output even if the headphones are not used.
Remarks	• When the VOL (+/-) key is pressed, the mute icon is displayed for 4 seconds. • For the MUTE key and sound-related keys, caution is displayed. • For the headphones, normal operation is possible.

14) Remote control path through [RC PATH THROUGH]

Option	“OFF”, “ON: TVRCE” or “ON: TVRCD” (loop enabled)
Default	OFF
Function	The item decide whether the signal received by the remote control’s light-receiving section is output to the blankpin (9pin) of RS232C. OFF : This function is not active. ON: TVRCE : This function is active, and remote control is active, too. ON: TVRCD : This function is active, but remote control is not active.
Exception	• In the case of “ON: TV RCD”, the start operation in the adjustment process mode, inspection mod are enabled regardless of this setting. • In the case of “ON: TV RCD”, all the keys are enabled regardless of this setting while entering the adjustment process mode, inspection mode or Public mode setting screen.
Remarks	* Remote control path through does not exist according to the model.

15) 232C power ON control [232C POWON]

Option	“ENABLE” or “DISABLE” (loop enabled)
Default	DISABLE
Function	The item decide whether Power ON by the 232C command is enabled/disabled in the standby state. The same function as 232C command “RSPW”. ENABLE : POWR0001 is always enabled. DISABLE : Start-up may be impossible at POWR0001. (If the 232C command reception module is set to OFF, the command is invalid.)

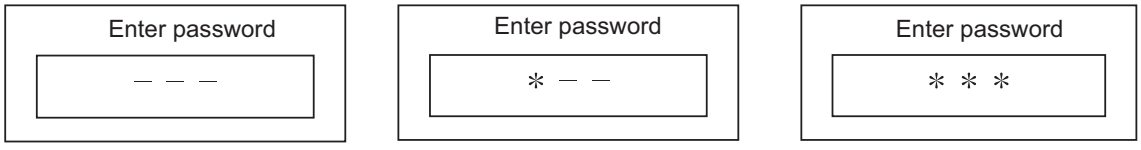
16) Public mode setting [PUBLIC MODE]

Option	“OFF” or “ON” (loop enabled)
Default	OFF
Function	The item decide whether Public mode setting menu are enabled or disabled. The same item as [PUBLIC MODE] in the adjustment process menu. OFF : Public mode is not active. ON : Public mode is active.
Remarks	Each operation of the Public mode is impossible unless this item is set to ON.

11. Copy Mode

1. Starting the Copy Mode
 - There are two following ways to display the Copy Mode setting screen.

 1) Method of needing password
 a) Turn off the power, refer to “3. Method of shuts down for Power supply”.
 b) While holding down the “INPUT” and “Volume (+)” keys on the set at once, touch the power supply key on the set.
 Please separate the finger from the power supply key when boot-up is confirmed with lighting of a central icon etc.
 After a while, value of Enter password appears on the screen.
 c) Display the Pass Word input screen.



 Operation procedure
 - The initial input position is the digit at the left end.
 - For the numeric keys “0” to “9” of R/C, key input is accepted.
 Input of the other keys is prohibited.
 - Change “—” to “✻” by inputting the numeric key at the input position, and shift the input position rightward one digit.
 - When three digits are completely input, the Pass Word is judged.

 d) Check the Pass Word by inputting three digits.
 If the Pass Word “3” “6” “9”, it shifts to the Copy Mode setting screen.
 In another case, the screen is erased, and it operates in the ordinary mode.

2. Exiting the Copy Mode Setting screen
 There is following way to exit the Copy Mode setting screen.
 - Turn off the power. (Unplug the AC power cord from the outlet to forcibly turn off the power.)

3. Basic operation in the Copy Mode

CH (+/-) or Cursor (▲/▼)	Movement to the selected item.
Decision (ok)	Execution

4. Restriction of Copy Mode

- USB thumb drive should be more than 1Mbyte.
- File system of USB thumb drive should be FAT (FAT32).
- More than one USB thumb drive shouldn't be connected to TV.
- All USB terminals can be valid, but more than one USB thumb drive shouldn't be connected to TV.
- If USB device is detected by TV, focus is not appropriated to items.
- In Copy mode (TV→USB) and (USB→TV), following should be mutched.

 Vender Name (Fixed)

 Key Information (Fixed)

 USB Cline Version

 Inch Size

 Country setting (Factory initialization)

 Model Name

 Software Version
- In each TV, setup of Network and IP control should be set again.

NOTE: • It is unnecessary to execute “Initial Auto Instration” for Copy Mode.
(Obviously, setting the country is also unnecessary.)
• Copy Mode can’t start until the TV recognizes a USB device.
TV takes about 20 seconds to recognizes a USB device after boot-up.

5. Copy data

Copy data is as follows;

Copy Data	Remarks
Size of Ch call	
Card slot selection Setting	
Alphabet sorts do/not	
HOME/Store Setting	
Public Setting	
Sound multiplex information in each Ch	
Administrative information for Time Shift	Vendor ID, Product ID, Serial ID for storage
Communication's information	IP address, Gateway, DNS address Kinds of Security key encryption (WiFi) Access point identifier (WiFi) Key for access point
IP control setting information	Device name, Login ID, Password, Communication port
DTV service list	Number of all services CH list Number of broadcasting on each network
Last value	Last network information (DVB-T, DVB-S, DVB-C, ATV) Last channel information Volume, wide mode, and subtitle
Local Time Information	Information that corrects ±X time against Universal Time
User Manu Data	User Menu Data don't have these information. Temporary data Message list, Reception report, EPG, Off timer, Off video, and Signal strength Peculiarity data for TV DRM information for DivX, Mac address, and Accumulated time information Connected equipment information (But the recorder selection of the AQUOS LINK setting can be copied.) physical address Category of equipment Maker Name Connected model name Data related to encrypted broadcasting (CI+) Adjustment process mode Data

6. Operating

1) Copy mode (TV→USB)

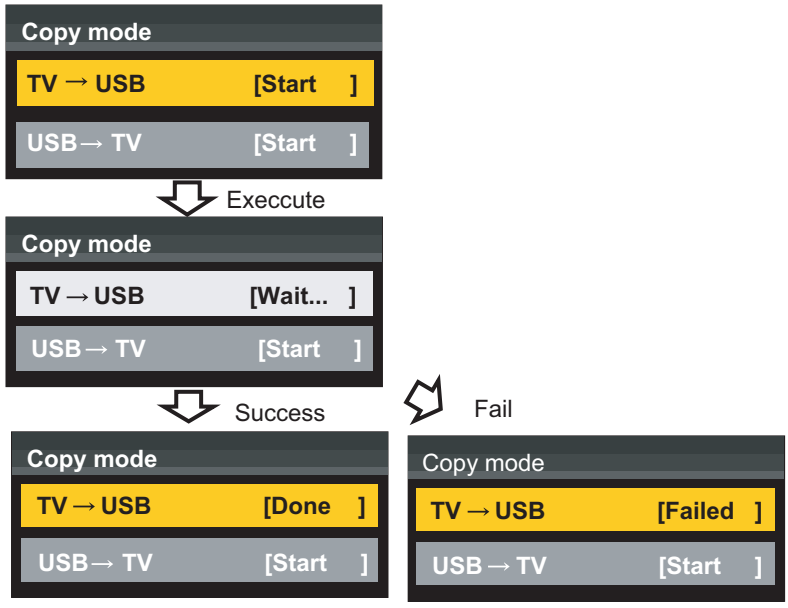
① Execute start in Copy Mode setting screen.

※ If USB device is detected by TV,
focus is not appropriated to items.

② [Wait···] is displayed while executing it.
When succeeding: Done is displayed.
When failing: Failed is displayed.

※ Key opration is not valid in coping.

③ After success of copy,
unplug the AC power cord from the outlet, please.



2) Copy mode (USB→TV)

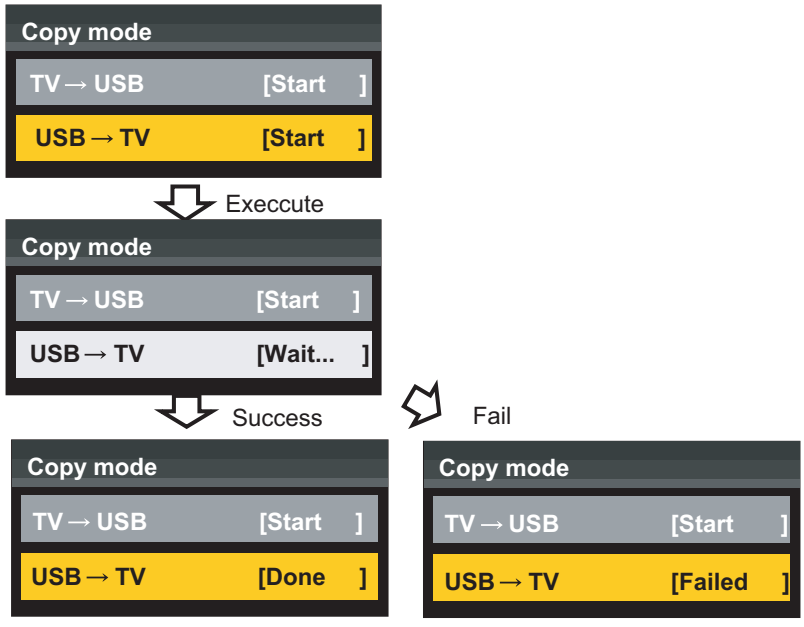
① Execute start in Copy Mode setting screen.

※ If USB device is detected by TV,
focus is not appropriated to items.

② [Wait···] is displayed while executing it.
When succeeding: Done is displayed
When failing: Failed is displayed.

※ Key opration is not valid in coping.

③ After success of copy,
unplug the AC power cord from the outlet, please.



12. Video signal adjustment procedure

The adjustment process mode menu is listed in Section 5.

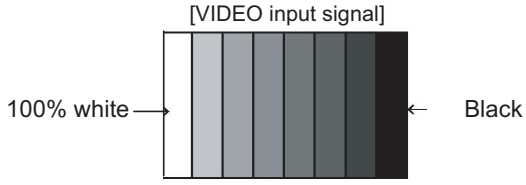
Signal generator level adjustment check. (Adjustment to the specified level)

- Composite signal PAL : 0.7Vp-p ± 0.02Vp-p (Pedestal to white level)
- 33K component signal (50 Hz) : Y level : 0.7Vp-p ± 0.02Vp-p (Pedestal to white level)
 : PB, PR level : 0.7Vp-p ± 0.02Vp-p
- ANALOG PC (RGB) signal : RGB level : 0.7Vp-p ± 0.02Vp-p

12.1. Entering the adjustment process mode

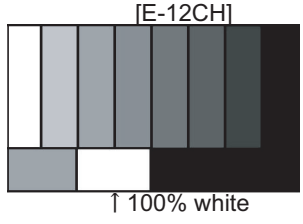
Enter the adjustment process mode according to Section **4**.

12.2. PAL signal adjustment

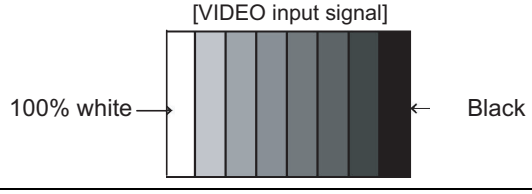
	Adjustment point	Adjustment conditions	Adjustment procedure
1	Setting	[Signal] PAL Full field colour bar composite signal [Terminal] EXT1 SCART Video (PAL) IN	• Feed the PAL full field colour bar signal (75% colour saturation) to EXT1 SCART IN. 
2	Auto adjustment performance	Adjustment process [PAL ADJ] page 4/24	Bring the cursor on [PAL ADJ] and press [OK]. [PAL ADJ OK] appears when finished.

* **ATTENTION:** Please execute [12.3. TUNER adjustment] afterwards if you adjust [12.2. PAL signal adjustment] after all adjustments are completed.

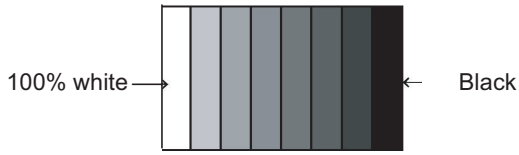
12.3. TUNER adjustment

	Adjustment point	Adjustment conditions	Adjustment procedure
1	Setting	[Signal] PAL sprit field colour Bar RF signal UV [Terminal] TUNER	• Feed the PAL Split Field colour bar signal (E-12ch) to TUNER. • Make sure the PAL colour bar pattern has the sync level of 7:3 with the picture level. Signal level: 55 dB μV ± 1dB (75Ω LOAD) 
2	Auto adjustment performance	Adjustment process [TUNER ADJ] page 3/24	Bring the cursor on [TUNER ADJ] and press [OK]. [TUNER ADJ OK] appears when finished.

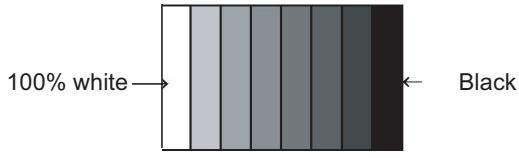
12.4. SECAM adjustment

	Adjustment point	Adjustment conditions	Adjustment procedure
1	Setting	[Signal] SECAM Full field colour Bar Signal [Terminal] EXT1 SCART IN	• Feed the SECAM full field colour bar signal (75% colour saturation) to EXT1 SCART IN. 
2	Auto adjustment performance	Adjustment process [SECAM ADJ] page 4/24	Bring the cursor on [SECAM ADJ] and press [OK]. [SECAM ADJ OK] appears when finished.

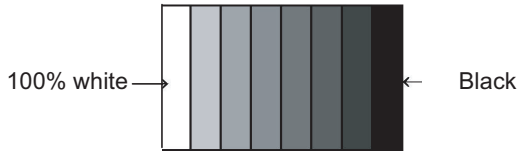
12.5. ADC adjustment (Component 15K)

	Adjustment point	Adjustment conditions	Adjustment procedure
1	Setting	[Signal] COMP15K, 50Hz 100% Full field colour bar Signal [Terminal] EXT3 COMPONENT IN	• Feed the COMPONENT 15K 100% full field colour bar signal (100% colour saturation) to EXT3 COMPONENT IN. 
2	Auto adjustment performance	Adjustment process [COMP15k ALL ADJ] page 6/24	Bring the cursor on [COMP15k ALL ADJ] and press [OK]. [COMP15K ALL ADJ OK] appears when finished.

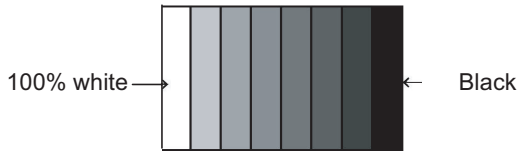
12.6. ADC adjustment (Component 33K)

	Adjustment point	Adjustment conditions	Adjustment procedure
1	Setting	[Signal] COMP33K, 50Hz 100% Full field colour bar Signal [Terminal] EXT3 COMPONENT IN	• Feed the COMPONENT 33K 100% full field colour bar signal (100% colour saturation) to EXT3 COMPONENT IN. 
2	Auto adjustment performance	Adjustment process [HDTV ADJ] page 7/24	Bring the cursor on [HDTV ADJ] and press [OK]. [HDTV ADJ OK] appears when finished.

12.7. PC signal adjustment (ANALOG D-Sub 15pin)

	Adjustment point	Adjustment conditions	Adjustment procedure
1	Setting	[Signal] XGA, 60Hz 100% Full Field Colour Bar Signal [Terminal] PC IN	• Feed the XGA 60Hz 100% full field colour bar signal (100% colour saturation) to PC IN. 
2	Auto adjustment performance	Adjustment process [ANALOG PC ADJ] menu page 8/24	Bring the cursor on [ANALOG PC ADJ] and press [OK]. [ANALOG PC ADJ OK] appears when finished.

12.8. RGB (SCART) adjustment (RGB 15K)

	Adjustment point	Adjustment conditions	Adjustment procedure
1	Setting	[Signal] RGB 15K, 50Hz 100% Full field colour bar signal [Terminal] EXT1 SCART RGB IN	• Feed the RGB 15k 50Hz 100% full field colour bar signal (100% colour saturation) to EXT1 SCART IN. 
2	Auto adjustment performance	Adjustment process [SCART RGB ADJ] menu page 9/24	Bring the cursor on [SCART RGB ADJ] and press [OK]. [SCART RGB ADJ OK] appears when finished.

13. White balance adjustment

For white balance adjustment, adjust the offset values on pages 11/24.

[Condition of the unit for inspection] : Modulated light (+16)
AV MODE: DYNAMIC
Active Backlight: OFF
OPC: OFF
Asing Time: Min, 60 minute

[Input signal condition] : HDMI 1080i 15IRE (LO), 78IRE (HI)

[Adjustment reference device] : Minolta CA-210

[Adjustment procedure]

1) Display the current adjustment status at R/G/B_GAIN (HI). (Page 11/24 of process adjustment)
 The signal of 78IRE is input.
2) Read the value of the luminance meter. x=0.272, y =0.277
3) Change R_GAIN (HI)/ B_GAIN (HI) (Adjustment offset value) on page 11/24 of process adjustment so that the values of the luminance meter approach x=0.272 and y =0.277.
 (Basically, G is not changed. If adjustment fails with R and B, change G. When G is lowered, the weaker of R or B must be fixed.)
4) Display the adjustment status of the current R/G/B_GAIN (LO).
 The signal of 15IRE is input.
 Change R_GAIN (LO)/ B_GAIN (LO) (adjustment offset value) on page 11/24 of process adjustment so that the values of the luminance meter approach x =0.272 and y = 0.277.
5) Both HI and LO are repeating the step from 1 to 4 until becoming an aim value.
 [Adjustment reference standard value]
 Adjustment spec ± 0.002 Inspection spec ± 0.004 (point LO)
 Adjustment spec ± 0.001 Inspection spec ± 0.002 (point HI)
6) After completing adjustments, set EEP SAVE (Page 24/24) to ON in the process menu to save the white balance adjustment value.

14. Confirmation item

1. HDMI-CEC Inspection
 After repairing the CEC function, check the operation about HDMI-CEC circuit.
2. CI card Inspection
 After repairing the CI function, check that the DTV signal is received by inserting CAM.
 And check the KEY certification by inserting CAM which is prepare for CI+.
3. LAN Inspection (NET)/test connectivity of SD card.
 After repairing the LAN function, check the communication by connecting PC and LAN terminal.
 And test connectivity of SD card.
4. 3D Check
5. IR communication Check/IR Emitter (Infrared light Output) Inspection.

15. Initialization to factory settings

CAUTION: When the factory settings have been made, all user setting data, including the channel settings, are initialized.
(The adjustments done in the adjustment process mode are not initialized.) Keep this in mind when initializing these settings.

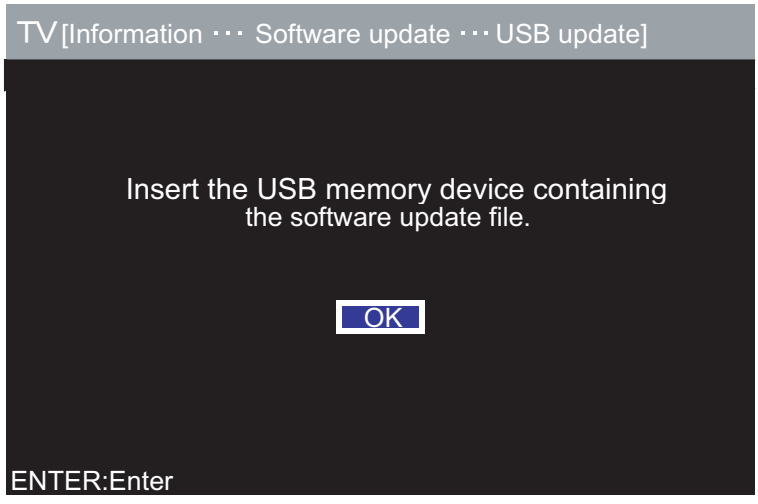
	Adjustment item	Adjustment conditions	Adjustment procedure
1	Factory settings	Ends by turning off the MAIN POWER key. (See to below caution)	[Factory setting with adjustment process mode] • Enter the adjustment process mode. • Move the cursor to [INDUSTRY INIT] on page 2/24. • Use the R/C key to select a region from [EUROPE/RUSSIA/SWEDEN] and press the [OK] key. • “EXECUTING” display appears. • After a while, “SUCCESS” display appears, the setting is completed. When succeeding: Background color (green) When failing: Background color (red)
			The following items are initialized in the factory setting. 1) User settings 2) Channel data (e.g. broadcast frequencies) 3) Maker option setting 4) Password data

After adjustments, exit the adjustment process mode.
To exit the adjustment process mode, unplug the AC power cord from the outlet to forcibly turn off the power.
When the power is turned off with the remote control, unplug the AC power cord and plug it back in (wait approximately 20 seconds before plugging in the AC power cord).
After completing the NET connection., execute the NET initialization (Record of the server access).

Please execute the initialized in the factory setting again when you turn on the power supply after the initialized in the factory setting is set.

16. Upgrading the software

1. Turn on the AC power.
2. Insert the upgrading USB flash memory for upgrade into the service slot.
 (After a while, an external input changes into USB automatically.)
3. Use the Menu button and cursor keys (◄/►/▲/▼), Ch keys (﹀/﹀) of R/C or on the set to select Menu - Setup - Information - Software update - USB update on OSD menu.
4. The message (Insert the USB memory device contains the software update file) shows up.
 Push OK when if there is no problem.



5. After a while, if software update file is detected in the USB memory device, the following screen shows up.
 Select OK when if there is no problem.

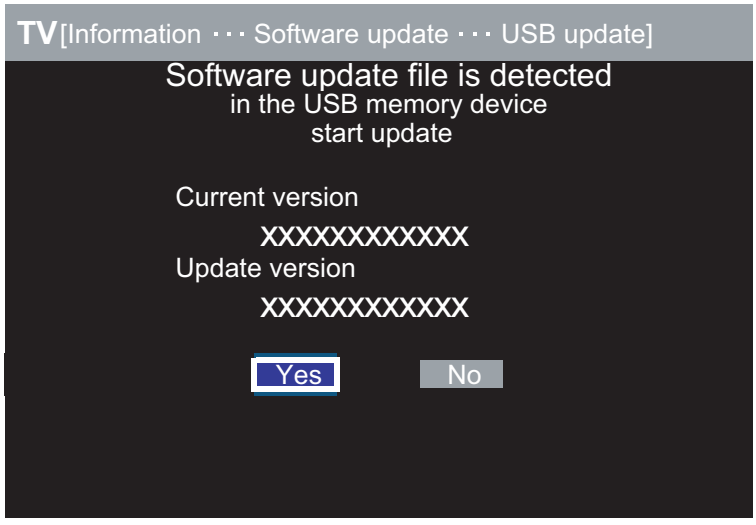
NOTE: If USB memory device isn't correctly inserted in TV, caution shows up.
Please insert USB memory device and retry software update.

NOTE: If there are more than two software update files in the USB memory device, caution shows up.
Please insert one file and retry software update.

NOTE: If there is no software update file in the USB memory device, caution shows up.
Please insert the correct file and retry software update.

NOTE: If software update file in the USB memory device doesn't mutch this model, caution shows up.
(Because Model name is unmatched or check sum error occurs.)
Please insert the correct file and retry software update.

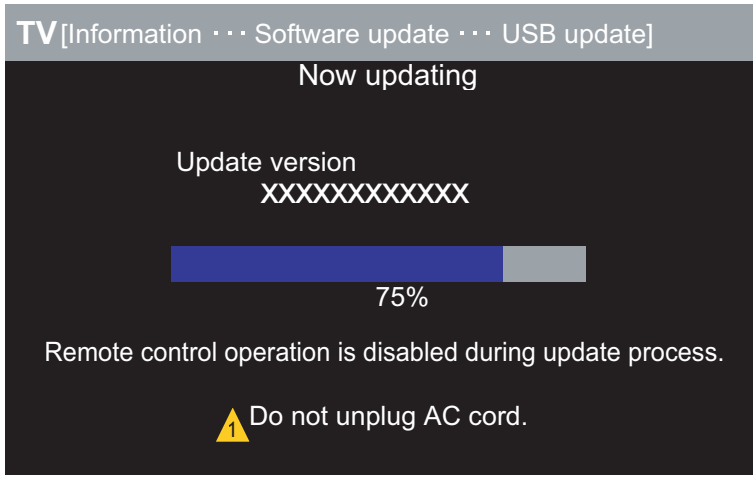
NOTE: If software update file in the USB memory device is already installed, caution shows up.
Please reconfirm the software version and reinstall. (if necessary)



6. The caution for update showes up.
 - The picture will temporary go dark until the software update display apeeares.
 - Wait several minutes and don't unplug the AC cord.

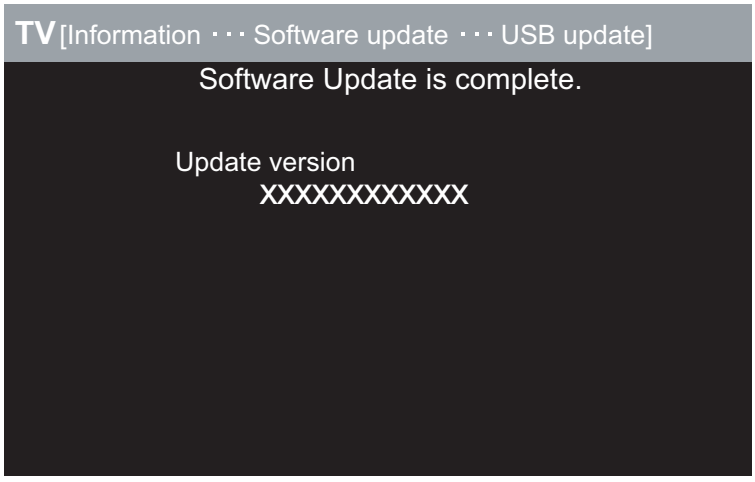
 Select OK when if there is no problem.
7. Software update starts.
 Please wait for a while until the bar shows 100%.

NOTE: Do not take out the USB memory device during updating.

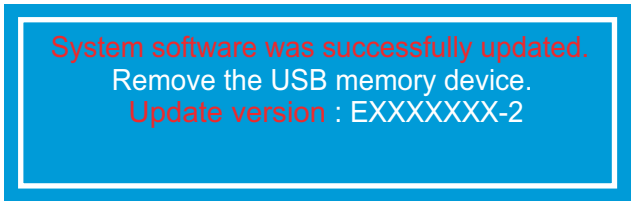


8. When all the procedures are complete, the following upgrade success screen shows up.
 The new software version can be confirmed on screen.
 After a while, Turn off power and boot-up automaticaly.

NOTE: TV is restarted automaticaly, the AC code need not be pulled out.



9. After boot-up, the following caution shows up.
 Select OK when if there is no problem.
 Software update is completed, please remove the USB memory device.



NOTE: Then get the set started and call the process adjustment screen (Top Page) to check the main software version.

CHAPTER 6. TROUBLESHOOTING TABLE

[1] TROUBLESHOOTING TABLE

No power (Central Icon LED failure to light up) or No startup (Central Icon LED is flashing)

↓

Is the AC cord connector tightly connected to the set?	NO →	Reconnect the AC cord tightly and turn on the power again.

↓ YES

Are the wire harnesses and other cables properly connected to the set?	NO →	Reconnect the wire harnesses and other cables properly to the set.

↓ YES

Is power supplied from pins [9/BU+5V] of [PD] P9602?	NO →	Replace the power unit.

↓ YES

Is there the pins [12/PS_ON] of [PD] P9602 at “H”?	NO →	Check the signal line between PS_ON and IC2001 (UCOM)/ IC3303 (Digital AV decode & Main CPU).

↓ YES

Is there the pins [11/AC_DET] of [PD] P9602 at “H”?	NO →	Check the power unit, and the signal line between AC_DET and IC2001/IC3303.

↓ YES

Is power supplied from pins [17~20/UR+13V] of [PD] P9602 as specified?	NO →	Check the line between PS_ON and IC2001/IC3303.

↓ YES

Are the DC/DC converter outputs and the output voltages along the control lines as specified?	NO →	Check the DC/DC converters and the control lines. Replace defective parts as required.

1) BU3.3V (IC9609 etc.)
2) D5.6V (IC9608 etc.)
3) D5V (IC9603 etc.)
4) U5V (IC9602 etc.)
5) D3.3V (IC9605 etc.)
6) M1.8V (IC9607 etc.)
7) D1.5V (IC9604 etc.)
8) D1.2V (IC1509 etc.)
9) D1.1V (IC9606 etc.)
10)AT5V (IC1104 etc.)
11)IF1.8V (IC1109 etc.)
12)SAT+1.2V (IC1102 etc.)
13)STB+3.3V (Q9607 etc.)
14)SD3.3V (IC8456 etc.)
15)CPU_A+1.2V (IC3301 etc.)
16)CIIN+5V (IC4403 etc.)
17)MT5135+1.1V (IC4401 etc.)

The sound is not emitted from the Speaker & Woofer though the picture has come out.

↓

No sound output in all modes?

↓ YES

Do audio signals output from pins [Y30/CPU_AOLRCK, Y31/CPU_AOBCK, V27/CPU_AOSDATA0] of IC3303 (Digital AV decode & Main CPU)? — NO → Check IC3303 and its peripheral circuits.

↓ YES

Do audio signals input to pins [7, 8, 9] of IC2701 (DSP)? — NO → Check the line between IC3303 and IC2701.

↓ YES

Do audio signals output from pins [43/AMP_BCLK, 44/AMP_LRCLK, 45/AMP_DATA_LR, 46/AMP_DATA_SW, 47/AMP_MCLK] of IC2701? — NO → Check IC2701 and its peripheral circuits.

↓ YES

In the case that the sound is not emitted from the Speaker, refer to (A).
In the case that the sound is not emitted from the Woofer, refer to (B).

↓ (A)

Do audio signals input to pins [5, 6, 7, 8] of IC2703 (SP_AMP)? — NO → Check the line between IC2701 and IC2703.

↓ YES

Do audio signals output from pins [28/OUTML, 30/OUTPL, 12/OUTPR, 14/OUTMR] of IC2703? — NO → Check IC2703 and its peripheral circuits.

↓ YES

Is AMP_MUTE [pin (21)] of IC2703 at “H”? — NO → Check the line between IC2703 and IC3303 & IC2001 (UCOM). (Q2701,D2701 etc...)

↓ YES

Do audio signals input to pins [1&2/L-ch, 3&4/R-ch] of P2701? — NO → P2701 terminal and the peripheral circuit (L/C filter) are checked.

↓ YES

Check Speaker (right and left) and wire harness.

↓ (B)

Do audio signals input to pins [5, 6, 7, 8] of IC2702 (Woofer_AMP)? — NO → Check the line between IC2701 and IC2702.

↓ YES

Do audio signals output from pins [28/OUTML, 30/OUTPL, 12/OUTPR, 14/OUTMR] of IC2702? — NO → Check IC2702 and its peripheral circuits.

↓ YES

Is AMP_MUTE [pin (21)] of IC2702 at “H”? — NO → Check the line between IC2702 and IC3303 & IC2001. (Q2701,D2701 etc...)

↓ YES

Do audio signals input to pins [1/SUB (+), 2/SUB (-)] of P2702? — NO → P2702 terminal and the peripheral circuit (L/C filter) are checked.

↓ YES

Check Woofer and wire harness.

No sound (during the reception of TV (ANALOG) broadcasting)

↓

Does not the sound go out though the picture has come out when UHF/VHF is received?

↓

In the case of LE830,LE833 series, refer to (A).
In the case of LE831 series, refer to (B).

↓ (A)

Does SIF signal output from pin (8) of TUNER (TU1102)? — NO → Check the tuner and its peripheral circuits. Replace as required.

↓ YES

Does SIF signal input to pin [AM24/CPU_ATV_IF+] of IC3303 (Digital AV decode & Main CPU)? — NO → Check the line between TU1102 and IC3303. (Q1102, etc.)

↓ YES

Refer to “The sound is not emitted from the Speaker & Woofer though the picture has come out.”

↓ (B)

Does SIF signal output from pin (8) of TUNER (TU1104)? — NO → Check the tuner and its peripheral circuits. Replace as required.

↓ YES

Does SIF signal input to pin [AM24/CPU_ATV_IF+] of IC3303 (Digital AV decode & Main CPU)? — NO → Check the line between TU1104 and IC3303. (Q1102, etc.)

↓ YES

Refer to “The sound is not emitted from the Speaker & Woofer though the picture has come out.”

No sound (during the reception of TV (DIGITAL) broadcasting)

↓

Does not the sound go out though the picture has come out when DTV is received?

↓

In the case of LE830,LE833 series, refer to (A).
In the case of LE831 series, refer to (B).

↓ (A)

Do IF signals output to pins [10, 11] of TUNER (TU1102)? — NO → Check the tuner and its peripheral circuits. Replace as required.

↓ YES

Do IF signals input to pins [35/IFPGA_INN, 36/IFPGA_INP] of IC4402 (CI Cont & DTB-T/C Demod)? — NO → Check the line between IC1102 and IC4402.

↓ YES

Do TS signals output to pins [15/DEMOD_TS_DATA0, 16/DEMOD_TS_SYNC, 17/DEMOD_TS_VAL, 18/DEMOD_TS_CLK] of IC4402? — NO → Check IC4402 and its peripheral circuits.

↓ YES

Do TS signals input to pins [U30/DEMOD_TSDATA0, V30/DEMOD_TSSYNC, V29/DEMOD_TSVAL, U32/DEMOD_TSCLK] of IC3303 (Digital AV decode & Main CPU)? — NO → Check the line between IC4402 and IC3303.

↓ YES

Refer to “The sound is not emitted from the Speaker & Woofer though the picture has come out.”

↓ (B)

Do TS signals output to pins [19/TS_TUOUT_CLK, 17/TS_TUOUT_SYNC, 18/TS_TUOUT_VAL, 20~27/TS_TUOUT_D0~7] of TUNER (TU1104)? — NO → Check the tuner and its peripheral circuits. Replace as required.

↓ YES

Do TS signals input to pins [45/TS_TUOUT_CLK, 46/TS_TUOUT_SYNC, 47/TS_TUOUT_VAL, 48, 51~57/TS_TUOUT_D0~7] of IC4402 (CI Cont & DTB-T/C Demod)? — NO → Check the line between TU1104 and IC4402.

↓ YES

Do TS signals output to pins [15/DEMOD_TS_DATA0, 16/DEMOD_TS_SYNC, 17/DEMOD_TS_VAL, 18/DEMOD_TS_CLK] of IC4402? — NO → Check IC4402 and its peripheral circuits.

↓ YES

Do TS signals input to pins [U30/DEMOD_TSDATA0, V30/DEMOD_TSSYNC, V29/DEMOD_TSVAL, U32/DEMOD_TSCLK] of IC3303 (Digital AV decode & Main CPU)? — NO → Check the line between IC4402 and IC3303.

↓ YES

Refer to “The sound is not emitted from the Speaker & Woofer though the picture has come out.”

No sound (during the reception of TV (DIGITAL-Satellite) broadcasting)
(DIGITAL-Satellite is only function for LE830,LE833 series)

↓

Does not the sound go out though the picture has come out when DTV is received?

↓

Do TS signals output to pins [44/TS_TUOUT_CLK, 46/TS_TUOUT_SYNC, 45/TS_TUOUT_VAL, 43~36/TS_TUOUT_D0~7] of TUNER(TU1102)?

NO → Check the tuner and its peripheral circuits. Replace as required.

↓ YES

Do TS signals input to pins [45/S2_TS_CLK, 46/S2_TS_SYNC, 47/S2_TS_VAL, 48,51~57/S2_TS_DATA0~7] of IC4402 (CI Cont & DTB-T/C Demod)?

NO → Check the line between TU1102 and IC4402.

↓ YES

Do TS signals output to pins [15/DEMOD_TS_DATA0, 16/DEMOD_TS_SYNC, 17/DEMOD_TS_VAL, 18/DEMOD_TS_CLK] of IC4402?

NO → Check IC4402 and its peripheral circuits.

↓ YES

Do TS signals input to pins [U30/DEMOD_TSDATA0, V30/DEMOD_TSSYNC, V29/DEMOD_TSVAL, U32/DEMOD_TSCLK] of IC3303 (Digital AV decode & Main CPU)?

NO → Check the line between IC4402 and IC3303.

↓ YES

Refer to “The sound is not emitted from the Speaker & Woofer though the picture has come out.”

No sound from external input devices (1)

↓

Does not the sound of the audio signal input to EXT1 go out?

↓

Do audio signals input to pins [2/AUDIO_IN_R, 6/AUDIO_IN_L] of EXT1 (SC505)?

NO → Check the setting of an external input device that connects with EXT1.

↓ YES

Do audio signals input to pins [AM32/SC1_AINR0, AM30/SC1_AINL0] of IC3303 (Digital AV decode & Main CPU) from SC505?

NO → Check the line between SC505 and IC3303.

↓ YES

Refer to “The sound is not emitted from the Speaker & Woofer though the picture has come out.”

No sound from external input devices (2)

↓

Does not the sound of the audio signal input to EXT2 go out?

↓

- Do audio signals input to pins[2/CVBS1_IN_R, 3/CVBS1_IN_L] of EXT2 (J511)?
- Is CVBS_PLUG [4/CVBS1_PLUG] of J511 at "L"

NO → Check the setting of an external input device that connects with EXT2.

↓ YES

Do audio signals input to pins [AL32/CVBS1_AINR2, AL30/CVBS1_AINL2] of IC3303 (Digital AV decode & Main CPU)?

NO → Check IC3303 and its peripheral circuits.

↓ YES

Refer to "The sound is not emitted from the Speaker & Woofer though the picture has come out."

No sound from external input devices (3)

↓

Does not the sound of the audio signal input to EXT3 go out?

↓

Do audio signals input to pins [7/COMP1_IN_R, 8/COMP1_IN_L] of EXT3 (J511)?

NO → Check the setting of an external input device that connects with EXT3.

↓ YES

Do audio signals input to pins [AK29/COMP1_AINR1, AK27/IFCOMP1_AINL1] of IC3303 (Digital AV decode & Main CPU)?

NO → Check IC3303 and its peripheral circuits.

↓ YES

Refer to "The sound is not emitted from the Speaker & Woofer though the picture has come out."

No sound from external input devices (4)

↓

Does not the sound of the audio signal input to HDMI-2 mode go out?

↓

Check whether it is selected "HDMI + Analog" by the Audio select under Menu-Setup-Option-Terminal setting-Audio select.

↓ YES

Does not the sound of the audio signal input to PC/Component mode go out?

↓

Check whether it is selected "Video + Audio" by the Audio select under Menu-Setup-Option-Terminal setting-Audio select.

↓ YES

Do audio signals input to pins [2/PC/HDMI_L, 3/PC/HDMI_R] of J501 (PC AUDIO_IN)?

↓ NO

Check the setting of an external input device that connects with J501.

↓ YES

Do audio signals input to pins [AM27/PC_HDMI_AINL4, AJ27/PC_HDMI_AINR4] of IC3303 (Digital AV decode & Main CPU)?

NO → Check the line between J501 and IC3303.

↓ YES

Refer to "The sound is not emitted from the Speaker & Woofer though the picture has come out."

No sound from external input devices (5)

↓

Does not the sound of the audio signal input to HDMI1/2/3/4 go out?

↓

Please Refer to “[External input HDMI-1/2/3/4] No picture on the display (11)”.

No sound from external output device (1)

↓

No audio signal output to EXT1 terminal.

↓

Do audio signals output from pins [1/AUDIO_OUT_R, 3/ AUDIO_OUT_L] of EXT1 (SC505)?

YES → Check the setting of an external input device that connects with EXT1.

↓ NO

Is AUDIO_MUTE(MUTE_A_ALL) [23 pin] of IC2001 (UCOM) at “H”?

YES → Check the peripheral circuits of IC2001 and AUDIO_MUTE. (Q502 etc...)

↓ NO

Do audio signals output from pins [1/TUNER_R_OUT, 7/ TUNER_L_OUT] of IC2706 (Buffer AMP)?

YES → Check the line between IC2706 and SC505.

↓ NO

Do audio signals input to pins [2, 6] of IC2706?

YES → Check IC2706 and its peripheral circuits.

↓ NO

Do audio signals (TUNER_OUTR/L) output from pins [AG31/ TUNER_OUT_R, AG32/TUNER_OUT_L] of IC3303 (Digital AV decode & Main CPU)?

YES → Check between IC3303 and IC2706.

↓ NO

Check IC3303 and its peripheral circuits.

No sound from external output device (2)

No sound from HEAD PHONE_OUTPUT/ AUDIO_OUTPUT terminal.

Does not the sound of the audio signal output to Headphone mode go out?

Check whether it is selected “Headphone” by Headphone/Audio out select under Menu-Setup-Option-Terminal setting-Headphone/Audio out select.

Does not the sound of the audio signal output to Audio out mode go out?

Check whether it is selected “Audio out” by Headphone/Audio out select under Menu-Setup-Option-Terminal setting-Headphone/Audio out select.

Do audio signals output from pins [2/MONI_HP_R, 3/MONI_HP_L] of J504 (HP Jack/AUDIO OUT)?
Is HP_PLUG [1 pin] of J504 at “H”?

YES

Check the setting of an external input device that connects with J504.
And check the line between J504 and IC3303 (Digital AV decode & Main CPU).

NO

Is HPOUT_MUTE at “H”?
Is HP_MUTE [AH12] of IC3303 at “H”?
Is AUDIO_MUTE (MUTE_A_ALL) [23 pin] of IC2001 (UCOM) at “H”?

YES → Check the line between J504 and HPOUT_MUTE. (Q506, D2711, IC3303 & IC2001 etc...)

NO

Do audio signals output from pins [2/MONI_HP_L, 11/MONI_HP_R] of IC2704 (HP-AMP)?

YES → Check the line between IC2704 and J504.

NO

Do audio signals input to pins [1, 12] of IC2704?

YES → Check IC2704 and its peripheral circuits.

NO

Do audio signals (HP_MONITOR_L/R) output from pins [AJ31/HP_MON_L, AJ32/HP_MON_R] of IC3303?

YES → Check the line between IC3303 and IC2704.

NO

Check IC3303 and its peripheral circuits.

No sound from external output device (3)

↓

No sound from DIGITAL AUDIO OUTPUT terminal.

↓

Does audio signal output from pin [1] of sound output terminal (D527)? — YES → Check D527 and peripheral circuits.

↓ NO

Does audio signal output from pin [4] of IC503? — YES → Check the line between IC503 and D527.

↓ NO

Is AUDIO_MUTE (MUTE_A_ALL) [23 pin] of IC2001 (UCOM) at "H"? — YES → Check the peripheral circuits of IC503 and AUDIO_MUTE. (Q505 etc...)

↓ NO

Does audio signal input to pin [2] of IC503? — YES → Check IC503 and peripheral circuits.

↓ NO

Does audio signal (OPT_OUT) output from pin [AA31/CPU_ASPDIF] of IC3303 (Digital AV decode & Main CPU)? — YES → Check the line between IC3303 and IC503.

↓ NO

Check IC3303 and its peripheral circuits.

No sound from external output device (4)

↓

Does not the sound of the audio signal output to HDMI1 go out?

↓

Does audio signal output from pin [14] of SC1503 (HDMI1 terminal)? — YES → Check SC1503 and peripheral circuits.

↓ NO

Does audio signal output from pin [39/HECP] of IC1504 (HDMI-SW)? — YES → Check the line between IC1504 and SC1503.

↓ NO

Does audio signal input to pin [36/SPDIF_IN] of IC1504? — YES → Check IC1504 and peripheral circuits.

↓ NO

Does audio signal (HDMI_OPT_OUT) output from pin [AA31/CPU_ASPDIF] of IC3303 (Digital AV decode & Main CPU)? — YES → Check the line between IC3303 and IC1504.

↓ NO

Check IC3303 and its peripheral circuits.

No picture on the display (1)

↓

The picture doesn't appear in all modes.

↓

Is the LVDS signal output from IC3303 (DIGITAL_AV_DECODER_&_MAIN_CPU) respectively?
[LVDS0_D0N/P (B15/A15), LVDS0_D1N/P (B16/A16), LVDS0_D2N/P (B17/A17), LVDS0_CLKN/P_74MHz (B18/A18), LVDS0_D3N/P (B19/A19), LVDS0_D4N/P (B20/A20), LVDS1_D0N/P (C15/D15), LVDS1_D1N/P (E15/E16), LVDS1_D2N/P (C17/D17), LVDS1_CLKN/P_74MHz (E17/E18), LVDS1_D3N/P (C19/D19), LVDS1_D4N/P (E19/E20)]

↓ NO → Check IC3303 and its peripheral control circuits. (IC2001, IC3501, IC3502, X3301, etc.)

↓ YES

Do above-mentioned LVDS signals output from connector (P2601)? — NO → Check the line between IC3303 and P2601.

↓ YES

Similarly, is LCD controller's control signal normal? — NO → Please check each control signal of DET_POW (DET_PNL12V), PE (PNL_EN).

↓ YES

LCD Controller Unit:
Do LVDS signals input to connector (LW) of LCD Controller Unit? — NO → Wire harness (LW) is checked.

↓ YES

Check the panel module.

No picture on the display (2)

↓

Does not the picture come out when VHF/UHF is received?

↓

In the case of LE830,LE833 series, refer to (A).
In the case of LE831 series, refer to (B).

↓ (A)

Does video signal (IFTU_AIF+/CVBS) output from pin [9] of TUNER (TU1102)? — NO → Check the tuner and its peripheral circuits. Replace as required.

↓ YES

Does video signal (TUNER_CVBS) input to pin [AK24/ CPU_CVBS0P] of IC3303 (Digital AV decode & Main CPU)? — NO → Check the line between TU1102 and IC3303. (Q1106, etc...)

↓ YES

Refer to “No picture on the display (1)”.

↓ (B)

Does video signal (IFTU_AIF+/CVBS) output from pin [9] of TUNER (TU1104)? — NO → Check the tuner and its peripheral circuits. Replace as required.

↓ YES

Does video signal (TUNER_CVBS) input to pin [AK24/ CPU_CVBS0P] of IC3303 (Digital AV decode & Main CPU)? — NO → Check the line between TU1104 and IC3303. (Q1106, etc...)

↓ YES

Refer to “No picture on the display (1)”.

No picture on the display (3)

↓

Does not the picture come out when DTV is received?

↓

Refer to “No sound (during the reception of TV (DIGITAL) broadcasting)”.

No picture on the display (4)

↓

Does not the picture come out when DTV (Satellite) is received?

↓

Refer to “No sound (during the reception of TV (DIGITAL-Satellite) broadcasting)”.

[External input EXT1] No picture on the display (5)

↓

Does not the picture of the CVBS signal input to EXT1 go out?

↓

Does CVBS signal input to pin [20] of EXT1 (SC505)? — NO → Check the setting of an external input device that connects with EXT1.

↓ YES

Does CVBS signal input to pin [AK22/CPU_CVBS2P] of IC3303 (Digital AV decode & Main CPU)? — NO → Check the line between SC505 and IC3303.

↓ YES

Refer to “No picture on the display (1)”.

[External input EXT1] No picture on the display (6)

↓

Does not the picture of the Y/C video signal input to EXT1 go out?

↓

Does Y/C video signal input to pins [20/Y, 15/C] of EXT1 (SC505)? — NO → Check the setting of an external input device that connects with EXT1.

↓ YES

Does Y/C signal input to pins [AK22/CPU_CVBS2P, AK19/SC_PR0P] of IC3303 (Digital AV decode & Main CPU)? — NO → Check the line between SC505 and IC3303.

↓ YES

Refer to “No picture on the display (1)”.

[External input EXT1] No picture on the display (7)

↓

Does not the picture of the R/G/B signal input to EXT1 go out?

↓

Do RGB signals input to pins [15/RGB_IN_RED/C, 11/ RGB_IN_GREEN and 7/RGB_IN_BLUE] of EXT1 (SC505)?

NO → Check the setting of an external input device that connects with EXT1.

↓ YES

Do RGB signals from EXT1 (SC505) input to pins [AK19/ SC_PR0P, AM19/SC_PB0P and AM18/SC_Y0P] of IC3303 (Digital AV decode & Main CPU)?

NO → Check the line between SC505 and IC3303.

↓ YES

Refer to “No picture on the display (1)”.

[External input EXT2] No picture on the display (8)

↓

Does not the picture of the CVBS signal input to EXT2 go out?

↓

Does CVBS signal input to pin [5] of EXT2 (J511)?
Is CVBS_PLUG [4/CVBS1_PLUG] of J511 at “L”?

NO → Check the setting of an external input device that connects with EXT2.

↓ YES

Does CVBS signal input to pin [AJ23/CPU_CVBS1P] of IC3303 (Digital AV decode & Main CPU)?

NO → Check the line between J511 and IC3303.

↓ YES

Refer to “No picture on the display (1)”.

[External input EXT3] No picture on the display (9)

↓

Does not the picture of the COMPONENT signal input to EXT3 go out?

↓

Do COMPONENT signals input to pins [13/COMP1_Y, 10/COMP1_Pr, 11/COMP1_Pb] of EXT3 (J511)?

NO → Check the setting of an external input device that connects with EXT3.

↓ YES

Do COMPONENT signals input to pins [AM16/COMP_Y1P), (AJ18/COMP_PR1P) and (AK17/COMP_PB1P] of IC3303 (Digital AV decode & Main CPU)?

NO → Check the line between J511 and IC3303.

↓ YES

Refer to “No picture on the display (1)”.

[External input PC] No picture on the display (10)

↓

Does not the picture of the ANALOG-RGB signal input to PC_IN (15pin-D-SUB terminal) go out?

↓

Do ANALOG-RGB and synchronized signal input to pin [(1, 2, 3)/(PC_RED, GREEN, BLUE), (14 and 13)/(PC_VSYNC, H.Sync)] of PC_IN (SC501)?

NO → Check the connection and setup with the external PC_IN devices.

↓ YES

Do ANALOG-RGB and synchronized signal input to pins [AM15/PC_RP, AK15/PC_GP, AK13/PC_BP, and AL13/PC_HSYNC, AM13/PC_VSYNC] of IC3303 (Digital AV decode & Main CPU)?

NO → Check the line between SC501 and IC3303.

↓ YES

Refer to “No picture on the display (1)”.

[External input HDMI-1/2/3/4] No picture on the display (11)

↓

Does not the picture/sound of the HDMI signal input to HDMI-1/2/3/4 go out?

↓

Is the Hot plug detection function output from pin [19] of the HDMI-1 (SC1503) normal?	NO →	Check the line between SC1503 and pin [59] of IC1504 (HDMI-SW).
Is the Hot plug detection function output from pin [19] of the HDMI-2 (SC1502) normal?	NO →	Check the line between SC1502 and pin [74] of IC1504 (HDMI-SW).
Is the Hot plug detection function output from pin [19] of the HDMI-3 (SC1501) normal?	NO →	Check the line between SC1501 and pin [55] of IC1504 (HDMI-SW).
Is the Hot plug detection function output from pin [19] of the HDMI-4 (SC1505) normal?	NO →	Check the line between SC1505 and pin [50] of IC1504 (HDMI-SW).

↓ NO

Check the setting of an external input device that connects with HDMI-1/2/3/4.

↓ YES

Is EDID data pins [58/HDMI1_SCL, 57/HDMI1_SDA] of IC1504 accessed, and is it read from pins [15, 16] of a HDMI-1 (SC1503)?	NO →	Is access possible in the exchange of IC1504?
Is EDID data pins [73/HDMI2_SCL, 72/HDMI2_SDA] of IC1504 accessed, and is it read from pins [15, 16] of a HDMI-2 (SC1502)?		↓ NO
Is EDID data pins [54/HDMI3_SCL, 53/HDMI3_SDA] of IC1504 accessed, and is it read from pins [15, 16] of a HDMI-3 (SC1501)?		Check the peripheral circuit of SC1501/1502/1503/1505 and IC1504.
Is EDID data pins [49/HDMI4_SCL, 48/HDMI4_SDA] of IC1504 accessed, and is it read from pins [15, 16] of a HDMI-4 (SC1505)?		

↓ YES

Do TMDS signals input to pins [26&27/ HDMI1_CLKNP_222.75MHz, 28&29/HDMI1_D0NP, 30&31/ HDMI1_D1NP, 32&33/HDMI1_D2NP] of IC1504?	NO →	Check the line between HDMI-1 (SC1503) and IC1504.
Do TMDS signals input to pins [17&18/ HDMI2_CLKNP_222.75MHz, 19&20/HDMI2_D0NP, 21&22/ HDMI2_D1NP, 23&24/HDMI2_D2NP] of IC1504?	NO →	Check the line between HDMI-2 (SC1502) and IC1504.
Do TMDS signals input to pins [8&9/ HDMI3_CLKNP_222.75MHz, 10&11/HDMI3_D0NP, 12&13/ HDMI3_D1NP, 14&15/HDMI3_D2NP] of IC1504?	NO →	Check the line between HDMI-3 (SC1501) and IC1504.
Do TMDS signals input to pins [99&100/ HDMI4_CLKN_222.75MHz, 1&2/HDMI4_D0NP, 3&4/ HDMI4_D1NP, 5&6/HDMI4_D2NP] of IC1504?	NO →	Check the line between HDMI-4 (SC1505) and IC1504.

↓ YES

Do TMDS signals output from pins [87&86/ SW_TMDS_CLKNP_222.75MHz_, 85&84/SW_TMDS_D0NP_, 83&82/SW_TMDS_D1NP_, 81&80/SW_TMDS_D2NP_] of IC1504 respectively?	NO →	Check the IC1504 and peripheral circuits.

↓ YES

Do TMDS signals input to pins [AM9&AL9/ SW_TMDS_CLKNP_222.75MHz, AM10&AL10/ SW_TMDS_D0NP, AM11&AL11/SW_TMDS_D1NP, AM12&AL12/SW_TMDS_D2NP] of IC3303 (Digital AV decode & Main CPU)?	NO →	Check the line between IC3303 and IC1504.

↓ YES

Refer to “Refer to “No picture on the display (1)” or “The sound is not emitted from the Speaker & Woofer though the picture has come out.”

<During external connection> No picture on the monitor

↓

No picture appears on EXT1 connected monitor during the ATV reception.

↓

Does CVBS signal output from pin [19] of EXT1 (SC505)? — YES → Check the setting of an external input device that connects with EXT1.

↓ NO

Does CVBS signal output from pin [5] of IC510? (CAPLESS VIDEO AMP with LPF) — YES → Check the line between SC505 and IC510.

↓ NO

Does CVBS signal input to pin [3] of IC510? — YES → Check the peripheral circuits of IC510.

↓ NO

Does CVBS signal output from pin [2] of IC507? — YES → Check the line between IC507 and IC510.

↓ NO

Is CVBS_OUT_MUTE [pin (1)] of IC507 at “L”? — YES → Check the line between IC3303 and IC507. Check the peripheral circuits of IC3303.

↓ NO

Does CVBS signal input to pin [6] of IC507? — YES → Check the peripheral circuits of IC507.

↓ NO

In the case of LE830, LE833 series, refer to (A)?
In the case of LE831 series, refer to (B)?

↓ (A)

Check the line between IC507 and TUNER (TU1102). (Q1106 etc...)

↓ (B)

Check the line between IC507 and TUNER (TU1104). (Q1106 etc...)

<During external connection> No picture on the monitor

↓

No picture appears on EXT1 connected monitor during the DTV reception.

↓

Does CVBS signal output from pin [19] of EXT1 (SC505)? — YES → Check the setting of an external input device that connects with EXT1.

↓ NO

Does CVBS signal output from pin [5] of IC510 (CAPLESS VIDEO AMP with LPF)? — YES → Check the line between SC505 and IC510.

↓ NO

Does CVBS signal input to pin [3] of IC510? — YES → Check the peripheral circuits of IC510.

↓ NO

Does CVBS signal output from pin [2] of IC507? — YES → Check the line between IC507 and IC510.

↓ NO

Is CVBS_OUT_MUTE [pin (1)] of IC507 at “H”? — YES → Check the line between IC3303 and IC507. Check the peripheral circuits of IC3303.

↓ NO

Does CVBS signal input to pin [4] of IC507? — YES → Check the peripheral circuits of IC507.

↓ NO

Does CVBS signal output from pin (AJ20/CPU_VDAC1_OUT) of IC3303 (Digital AV decode & Main CPU)? — YES → Check the line between IC3303 and IC507. Check the peripheral circuits of IC3303.

↓ NO

Refer to “No picture on the display (3) (4)”.

[External input Network] No picture on the display

↓

Does not the signal input to Network go out?

↓

Does the signal in/output to pins (1), (2), (3), (6) of LAN-jack (J9501)? — NO → Check the interface device and peripheral circuits. (power-LED of hub, LINK-LED of hub)

↓ YES

Do signals in/output to pins of IC3303 (Digital AV decode & Main CPU)? Pins [AD32&AD31/CPU_DATMDI_RJ45_TPN, AE32&AE31/CPU_DATMDI_RJ45_RPN] — NO → Check the line between IC3303 and J9501. (T9501 etc...)

↓ YES

Check IC3303 and its peripheral circuits.

No light (Back Light doesn't light)

Is the AC cord connector tightly connected to the set?
NO → Reconnect the AC cord tightly and turn on the power again.

YES

Are the wire harnesses and other cables properly connected in the set?
NO → Reconnect the wire harnesses and other cables properly in the set.

YES

Does Power starts up (central Icon LED lights up)?
NO → Refer to “No power (central Icon LED failure to light up) or no startup (central Icon LED failure is flashing)”.

YES

Is there the pins [10/PNL_POW] of [PD] P9602 at “H”?
NO → Check the power unit, and the signal line between PNL_POW and IC3303 (Digital AV decode & Main CPU).

YES

Is there the pins [2/STB] of [PD] P9602 at “H”?
NO → Check the power unit, and the signal line between STB and IC2001 (UCOM)/IC3303.

YES

Replace the power unit.

LCD Panel failure (1)

Does a single or several vertical stripes appear on the LCD screen?

Does a single or several horizontal stripes appear on the LCD screen?

Do luminescent or black dots appear on the screen?

Is the on-screen image rippling or distorted?

Is there any portion which some screens were darkish or became whitish?

Does all LED of one line are not lighting?

Replace the LCD panel or the power unit.

LCD Panel failure (2)

The backlight functions. Does not the image come out in the LCD screen (screen black)?

Does the entire LCD screen look whitish all over?

Does the QS drive function?

Are the data bit dropout? (No solution even when turning on and off the QS drive)

Is the gamma correction as specified?

Replace the LCD_CONT_UNIT.

[2] LED flashing specification at the time of the error

Display method

- Refer to Table 1.
- LED that can be used are only one of the central icon (Emblem Unit).

 This expresses the error situation by combining blinking at low speed and blinking at high speed.
- For this model, the blinking pattern displayed first is only a low-speed blinking.

 This expresses **a rough content of the error.**
- For this model, details are displayed by a high-speed blinking by pushing remote control MENU key.

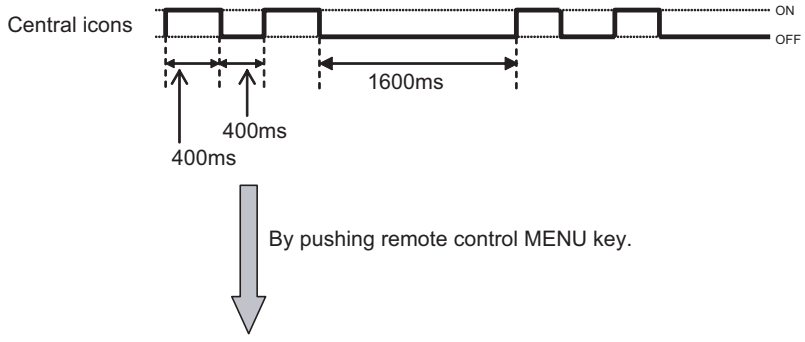
 This expresses **details of the error.**

 Details are distinguished by the blinking frequency.
- It doesn't return to the outline display again (blink at low speed) by pushing the MENU key (The toggle is not done).

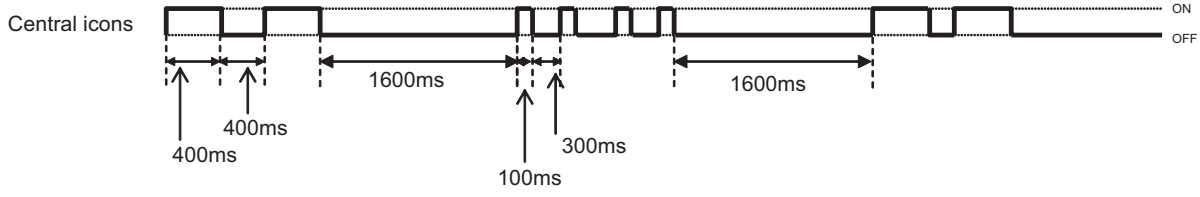
 Please confirm "MONITOR ERR CAUSE" of the adjustment Process mode (1/24 page), when the error doesn't reproduce by having returned from the error.
- The process of the upgrade is expressed by the brightness of point LED that smoothness changes.
- The upgrade completion is expressed by the LED brightness that changes in a staircase pattern.

LED flashing method

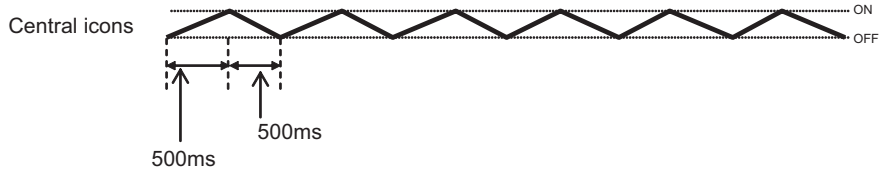
<Examination for a rough content of the error>



<Examination for details of the error>



<Upgrade executing>



<Upgrade completion>

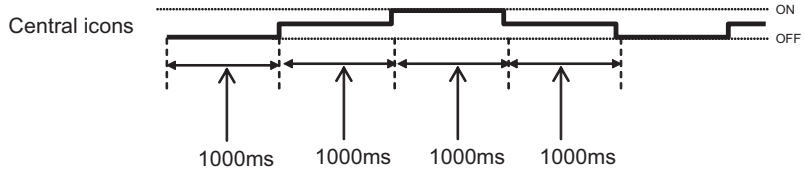


Table 1. Concrete flashing pattern

Item	Expression for a rough content		Expression for Details		Cause
	low-speed blinking	high-speed blinking	low-speed blinking	high-speed blinking	
Lamp system failure	Flashes once	—	Flashes once	Flashes once	Lamp error
Power PWB failure (Power failure, etc.)	Flashes twice	—	Flashes twice	Flashes once	Power Error 1 AC_DET error (*2)
				Flashes twice	Power Error 2 UR+13.5V error (*2)
				Flashes 3 times	Power Error 3 D3.3V error (*2)
				Flashes 5 times	Panel power supply error
Main PWB failure (Communication failure, etc.)	Flashes 3 times	—	Flashes 3 times	Flashes once	Initial communication error
				Flashes twice	Start-up confirmation communication error
				Flashes 3 times	Regular communication error
				Flashes 5 times	Other communication error
Others	Flashes 4 times	—	Flashes 4 times	Flashes once	Temperature error
				Flashes twice	Sync error
				Flashes 3 times	Notification from the main microprocessor (*3)
Upgrade executing	smoothness changes.	—	—	—	Version upgrading
Upgrade completion	a staircase pattern.	—	—	—	Version upgrade succeeded
Upgrade failed	—	Flashing (Continuous)	—	—	Version upgrade failed
ROM data failure	—	Flashing (Continuous)	—	—	Start-up after failing version upgrade (*4)

*2: It depends on the system. The power supply error suitable for the product is defined.

*3: For details, refer to ERROR STANDBY CAUSE on the adjustment process screen.

*4: If the boot section is abnormal, there is no flashing (flashing disabled).

MONITOR ERR STBY table

Outline: Communication/Power failure detected by the monitor microprocessor (IC2001) is stored on EEPROM, states can be confirmed in the adjustment process mode.

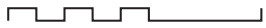
Location: Page (1/24) of the adjustment process mode: MONITOR ERR CAUSE “0” if there is no error. It is cleared to 0 on the page (2/24) of the adjustment process mode.

Display	Error description	
02	Start-up communication error 2	Initial communication from the main CPU is not received.
03	Start-up communication error 3	Only the initial communication is received.
04	Start-up communication error 4	Until panel information request reception
05	Start-up communication error 5	Until initialization completion reception
06	Start-up communication error 6	Until version notification transmission
07	Start-up communication error 7	Until start-up information notification transmission
08	Start-up communication error 8	Until start-up information response reception
09	Start-up communication error 9	Until time-out setting reception
0A	Communication error A	REQ time-out
0B	Communication error B	Restart time-out during the beginning of time acquisition start-up
0C	Communication error C	Ending sequence time-out
0D	Communication error D	Preset start-up time-out during completion
0E	Communication error E	Download start-up time-out
0F	Communication error F	Time acquisition time-out
11	Communication error H	Regular communication time-out
16	Panel-related error	Lamp failure
1A	Other error 2	Monitor temperature failure
1D	Power supply error 1	PS_ON (AC_DET) failure
1E	Power supply error 2	D_POW (DET_13V) failure
1F	Power supply error 3	D_POW (DET_D3V3) failure
21	Power supply error 5	Panel power failure
23	Other error 3	Error standby request from the main CPU

LED flashing timing chart at the time of the error



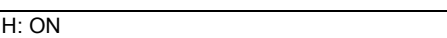
1) Low-speed blinking

Error type	Expression of Central Icon LED	
Lamp failure low-speed blinking Flashes once	H: ON  L: OFF	Refer to “Lamp failure details”. LOW/High blinking by pressing the [MENU] key on the remote control.
Power failure low-speed blinking Flashes twice	H: ON  L: OFF	Refer to “Power failure details”. LOW/High blinking by pressing the [MENU] key on the remote control.
Communication failure with main CPU low-speed blinking Flashes 3 times	H: ON  L: OFF	Refer to “Communication failure details”. LOW/High blinking by pressing the [MENU] key on the remote control. Communication line failure or main CPU communication failure.
Others low-speed blinking Flashes 4 times	H: ON  L: OFF	Refer to “Other failure details”. LOW/High blinking by pressing the [MENU] key on the remote control.

2) Lamp failure details (Low-speed blinking: Flashes once + High-speed blinking)

Error type	Expression of Central Icon LED	Note: Pins are monitor microprocessor pins unless otherwise specified (IC2001).
Lamp failure Flashes once (High speed)	H: ON  L: OFF	LAMP_ERR (19pin): Abnormal H. Confirmed after 8 consecutive detections at 64ms intervals (detected only when the backlight is on). NOTE: After 5 detection counts, the lamp cannot be activated except in the monitoring process. To confirm the problem, “Lamp Error detection off-mode” is prepared. This mode compulsorily starts the set disregarding the count. Please refer to [9. Lamp Error detection (ADJUSTMENT PROCEDURE)]

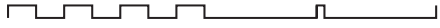
3) Power failure details (Low-speed blinking: Flashes twice + High-speed blinking)

Error type	Expression of Central Icon LED	Note: Pins are monitor microprocessor pins unless otherwise specified (IC2001).
PS_ON AC_DET failure Flashes once (High speed)	H: ON  L: OFF	AC_DET (28pin): Abnormal (L). If error is detected during start-up or operation, the power is turned on again by interrupt handling (instantaneous blackout processing).
SM_POW Main 13V failure Flashes twice (High speed)	H: ON  L: OFF	DET_13V (32pin): Abnormal (L). Main 13V is not applied. If error is detected during start-up or operation, the power is turned on again by polling.
D_POW Digital 3.3V failure Flashes 3 times (High speed)	H: ON  L: OFF	DET_D3V3 (33pin): abnormal (L). Digital 3.3V is not applied. If error is detected during start-up or operation, the power is turned on again by polling.
PANEL_POW Panel 12V failure Flashes 5 times (High speed)	H: ON  L: OFF	DET_PNL12V (34pin): abnormal (L). DET_PNL12V is not applied. Detection starts after receiving command from Panel Power ON. The power is turned off by polling.

4) Communication failure details (Low-speed blinking: Flashes 3 times + High-speed blinking)

Error type	Expression of Central Icon LED	Note: Basically, debug print logs are analyzed or communication logs are analyzed by a bus monitor.
Initial communication reception failure Flashes once (High speed)	H: ON  L: OFF	Initial communication from the main CPU is not received. (Request for the monitor model No. is not received.) → Communication line failure or main CPU start-up failure.
Start-up confirmation reception failure Flashes twice (High speed)	H: ON  L: OFF	Start-up reason confirmation from the main CPU cannot be received. (Startup communication until start-up reason notification command is not received.) → Main CPU start-up failure or monitor microprocessor reception failure.
Regular communication failure Flashes 3 times (High speed)	H: ON  L: OFF	Regular communication that is performed at 1 second intervals in the normal operation is interrupted. → Main CPU operation failure or monitor microprocessor reception failure.
Other communication failure Flashes 5 times (High speed)	H: ON  L: OFF	When a request (PM_REQ=H) is sent from the main microprocessor, the request command is not output from the main CPU, etc. → Main CPU operation failure or monitor microprocessor reception failure.

5) Other failure details (Low-speed blinking: Flashes 4 times + High-speed blinking)

Error type	Expression of Central Icon LED	Note: Pins are monitor microprocessor pins unless otherwise specified (IC2001).
Monitor temperature failure Flashes once (High speed)	H: ON  L: OFF	If the panel temperature is 60°C or more for 15s or more in a row, CAUTION appears on the OSD (flashes in red in the lower right screen). If the panel temperature is 60°C or more for 25s or more in a row, error standby is activated. (MONITOR MAX TEMP on page (12/24) of the adjustment process: Change AD value for temperature failure): Thermistor
Main failure Flashes 3 times (High speed)	H: ON  L: OFF	Main microprocessor detection error (CPU temperature error, etc.) Details are displayed on page (1/24) of the adjustment process for the main microprocessor.

CHAPTER 7. MAJOR IC INFORMATIONS

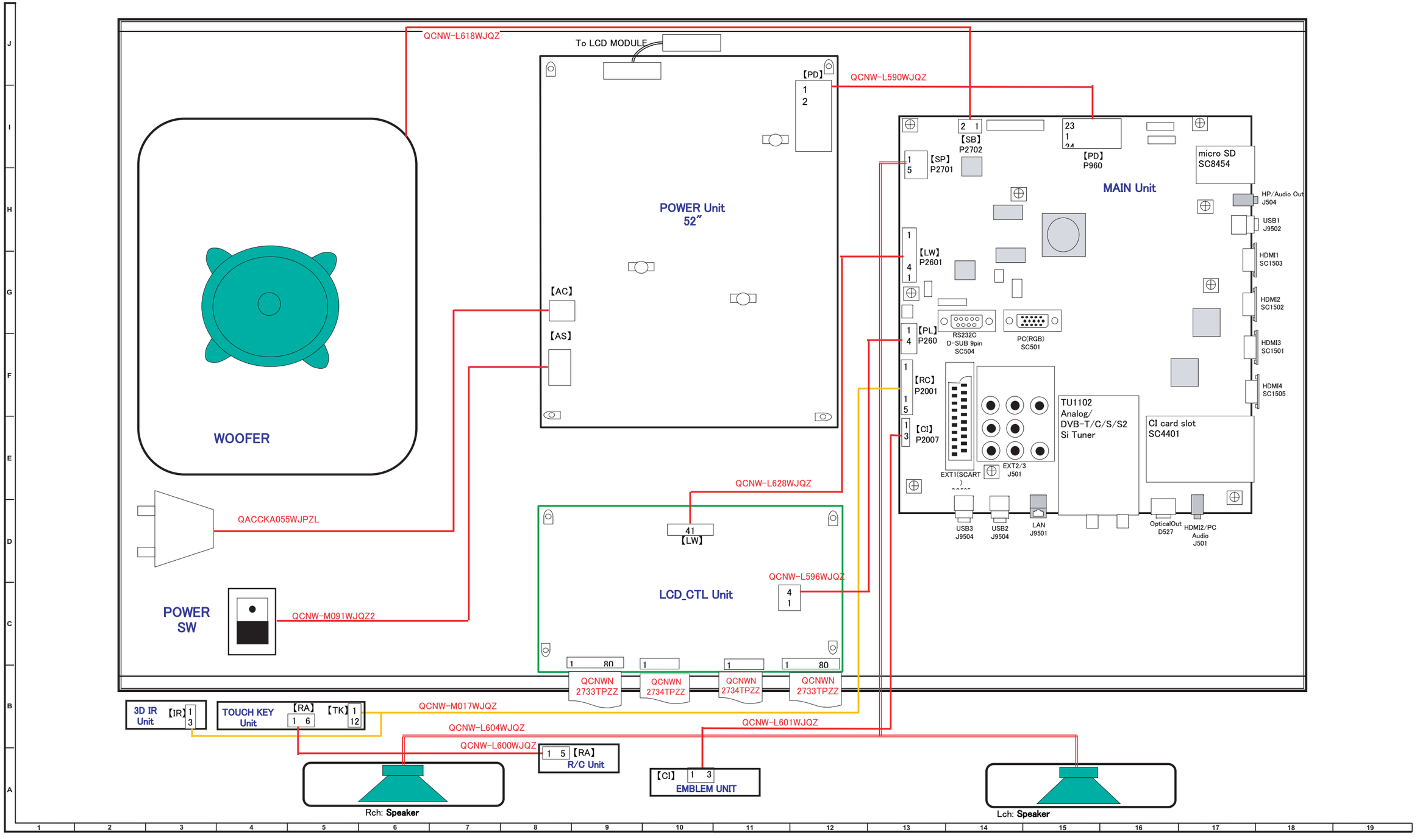
[1] MAJOR IC INFORMATIONS

REF NO	Name	Part Code	Description
[MAIN UNIT]			
IC8401	RH-iXD287WJQZQ	Flash	This IC is 2048Mbit NAND flash memory. This IC stores the software data that processes the system of TV such as the graphic processing, the LCD controls, and backlights etc.
IC3303	RH-iXD220WJQZQ	Digital AV decode Main CPU	This IC is Video Processor & MAIN CPU. In this IC, the decode processing and the video signal processing are done. Moreover, OSD is generated here and added to a picture signal.
IC2001	RH-iXD241WJQZQ for service (RH-iXD241WJN2Q)	UCOM	The monitor microprocessor is intended to communicate with the main CPU and to operate the system. It also controls power of the entire system.
IC3501/3502	RH-iXD242WJQZQ	DDR	This IC is 2GB DDR2 SDRAM. This IC operates as a memory of IC3303 (Digital AV decode & Main CPU).
IC8455	VHiR24064AS-1Y	64K bit E2PROM	The BR24S64W is a 64Kbit-2-wire (I2C bus type) serial EEPROM that can be programmed electrically. This IC stores the menu data and the adjustment value data of adjustment process mode etc. The data is given out by commands from the main microprocessor.
IC506	VHiM3221EiP-1Y	RS232C-DRIVER	The MAX3221E is a single driver, single receiver RS-232 solution operating from a single Vcc supply. The RS-232 pins provide IEC G1000-4-2 ESD Protection. The device meets the requirements of TIA/EIA-232-F and provides the electrical interface between an asynchronous communication controller and the serial-port connector. The charge pump and four small external capacitors allow operation from a single 3V to 5.5V supply.
IC4402	VHiMT5135AE-1Q	CI controller DTB-T/C Demodulator	This is a control IC for PCMCIA cards. This controls information on IC cards inserted into the PCMCIA card slot (SC4401) or information on software version upgrade cards saved on flash memories to transfer the data to CPUs and memories.
IC2005	VHiR24002AS-1Y	2K bit E2PROM	This is a 2Kbit-2-wire (I2C bus type) serial EEPROM that can be programmed electrically. This IC stores the menu data and the adjustment value data of adjustment process mode etc. The data is given out by commands from the main microprocessor.
IC1504	VHiSii9387+-1Q	HDMI_Port_Processor	The SiI9387 HDMI port processor is the second generation of HDMI devices that support revision 1.4 of the HDMI specification. The main feature is as follows. 1) 5-input, 1-output HDMI port processor. 2) Audio Return Channel that allows an S/PDIF uplink from HDMI sink device to an HDMI source available in one reciver port. 3) Integrated TMDS receiver and transmitter cores capable of receiving and transmitting at 2.25Gbps. 4) Supports video resolutions up to 1080p, 60Hz, 12bit or 720p/1080i, 120Hz,12bit. 5) Receiver fully comply with DVI1.0, HDCP and several optional 3D formats described in the HDMI1.4 specifications.
IC9505	VHiPD720114-1Q	Ethernet Bus Interface	The IC is a USB 2.0 hub device that complies with the Universal Serial Bus (USB) Specification Revision 2.0 and works up to 480 Mbps. USB 2.0 compliant transceivers are integrated for upstream and all downstream ports. The IC4 works backward compatible either when any one of the downstream ports is connected to a USB 1.1 compliant device, or when the upstream port is connected to a USB 1.1 compliant host.
IC2701	VHiYSS951VZ-1Y	Sound processor	This IC is the Sound processing LSI with built-in two DSP (MDSP/SDSP) and FM (frequency modulation) oscillators. This IC process sound signal and sent it to AMP for Speaker and Woofer.
IC2702 IC2703	VHiYDA164BZ-1Y	Audio-AMP	This IC is digital audio power amplifier with digital audio interface. The power-supply voltage is corresponded to A.5V~18V and the maximum output is 20Wx2ch.
IC1105 (LC-52/60LE830E, RU,833E only)	RH-iXC563WJQZY	LNB supply and control	It is IC for amplifying the feeble electric wave sent from satellite broadcasting on the level which can treat a decoder, and changing and processing signal.

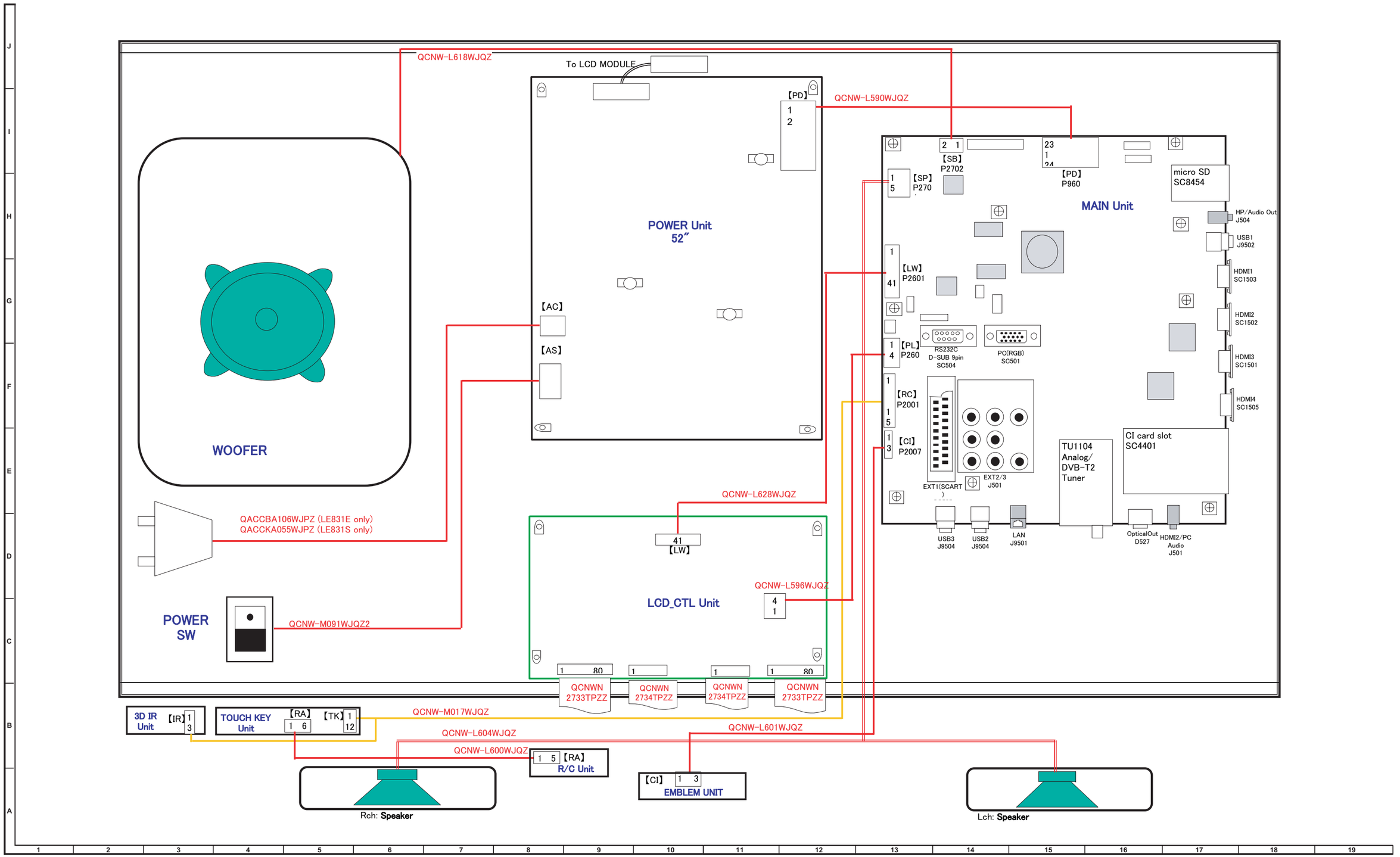
— M E M O —

CHAPTER 8. OVERALL WIRING/SYSTEM BLOCK DIAGRAM

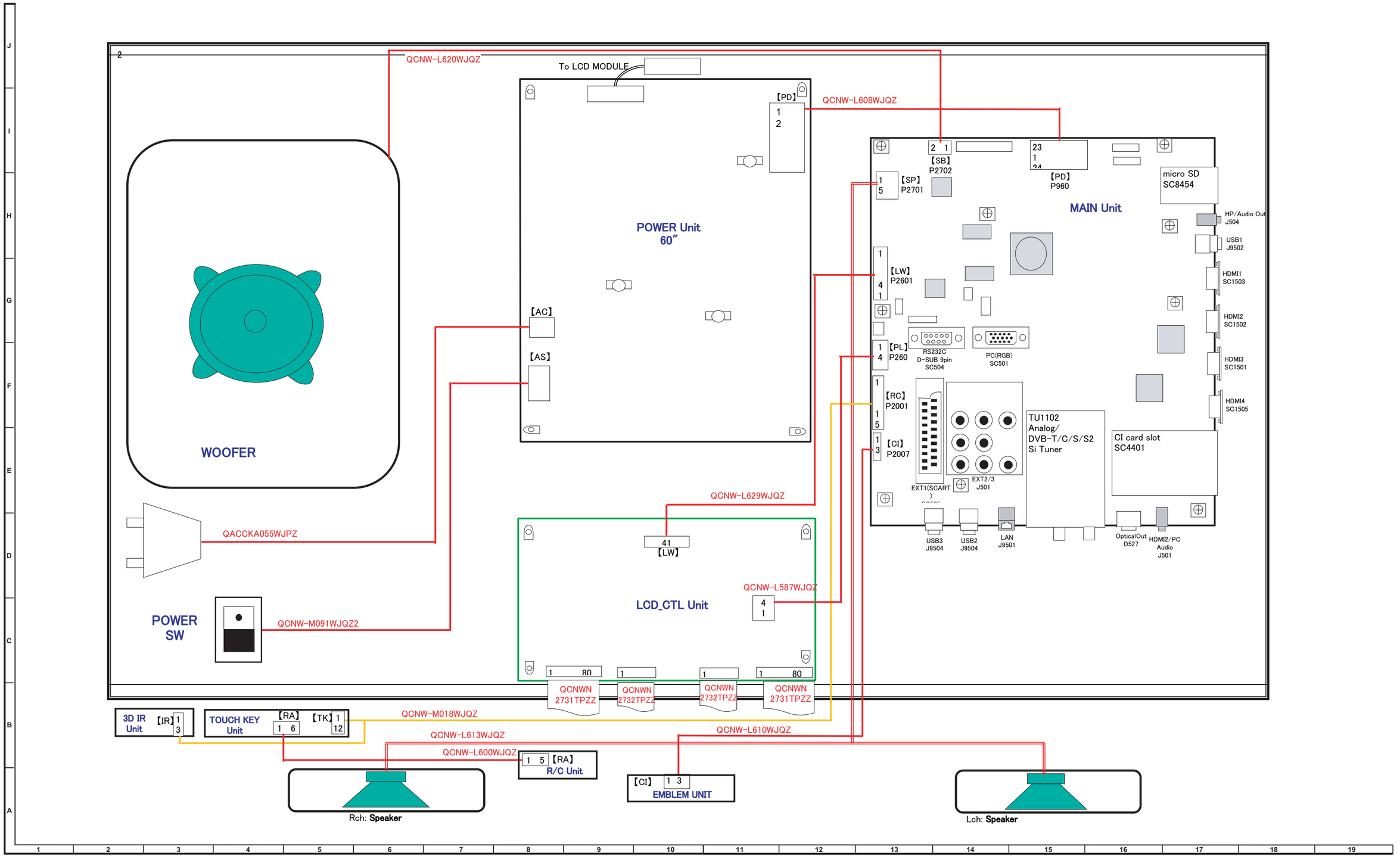
[1] OVERALL WIRING DIAGRAM (LC-52LE830E, RU/833E)



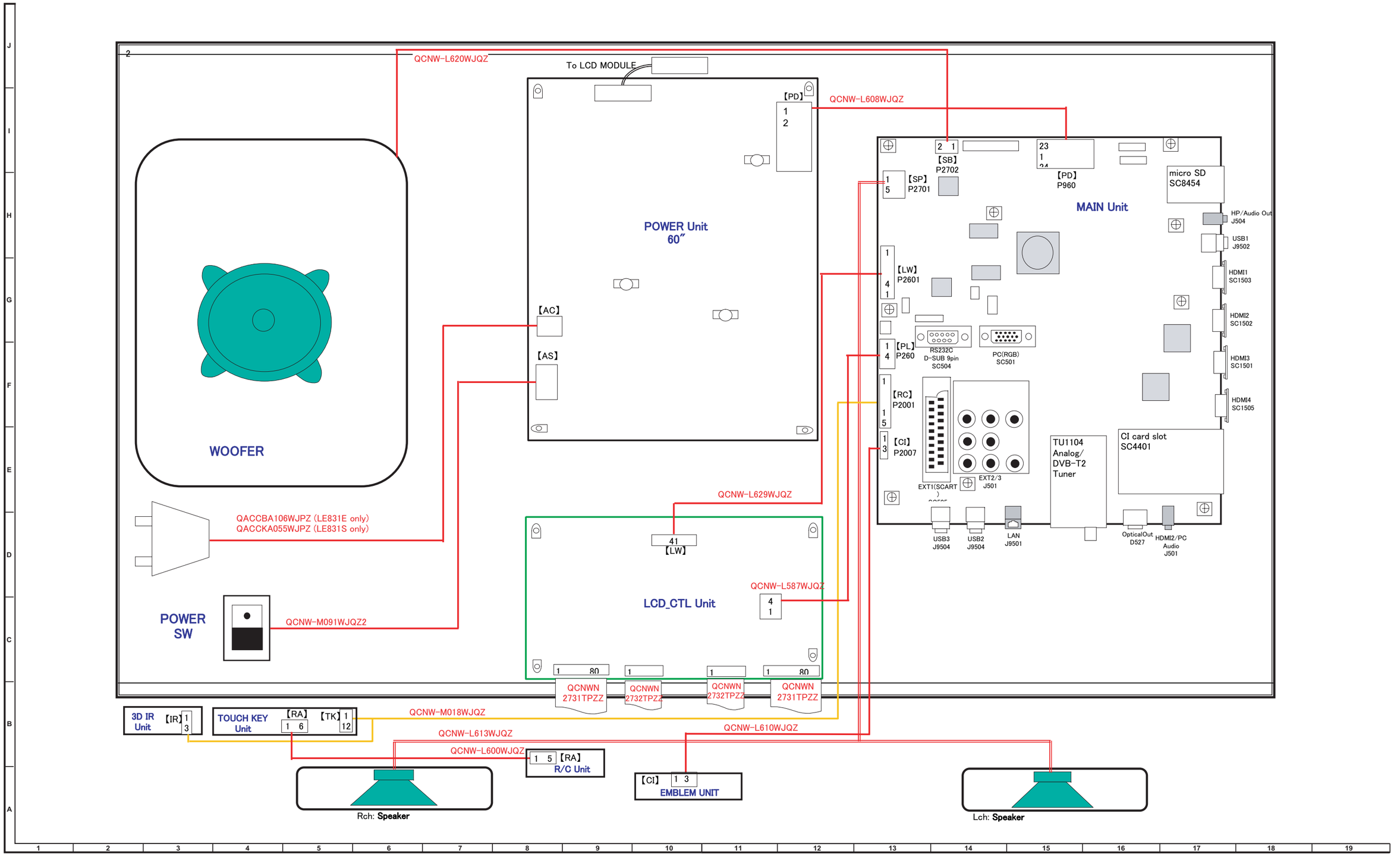
[2] OVERALL WIRING DIAGRAM (LC-52LE831E, S)



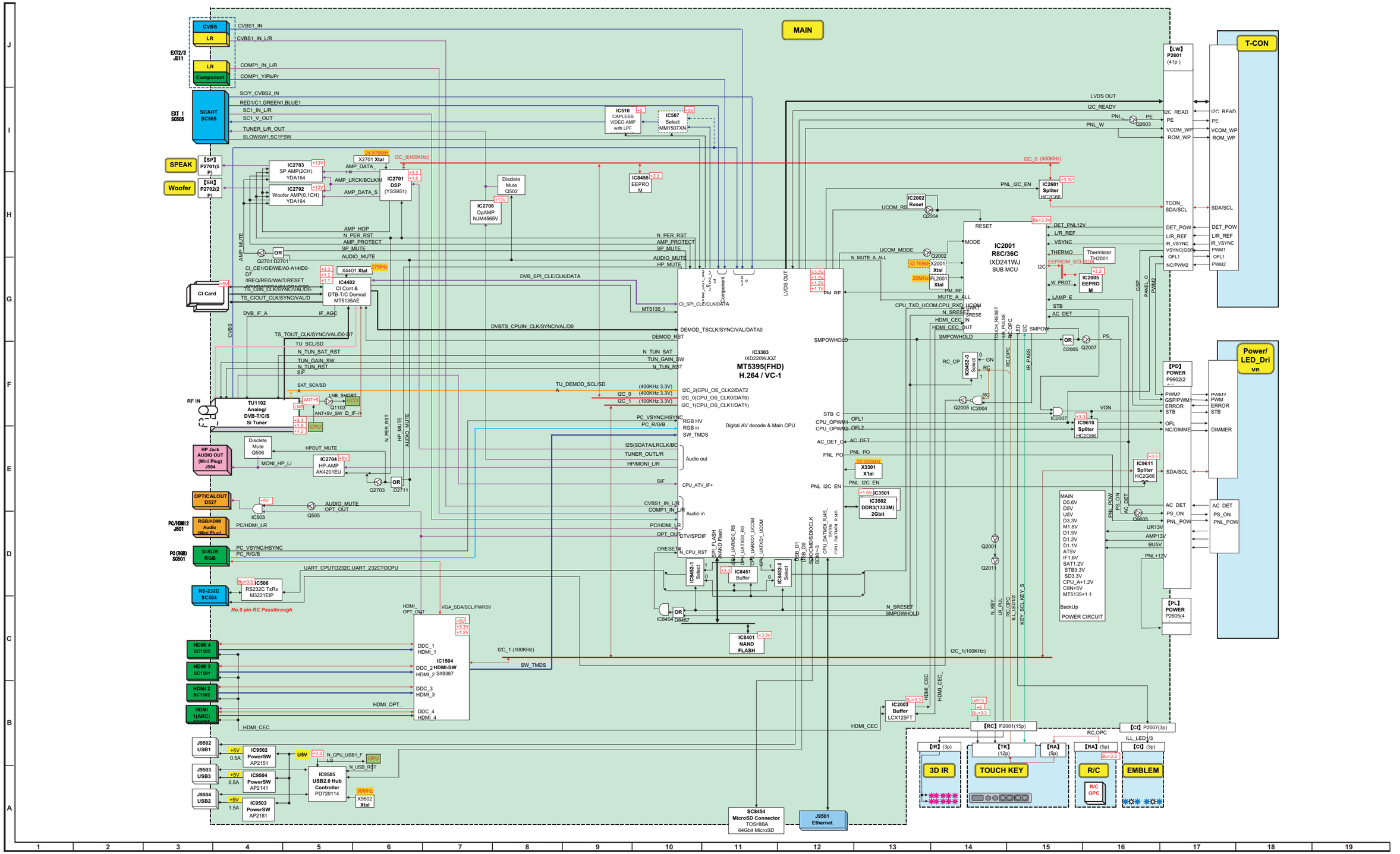
[3] OVERALL WIRING DIAGRAM (LC-60LE830E, RU/833E)



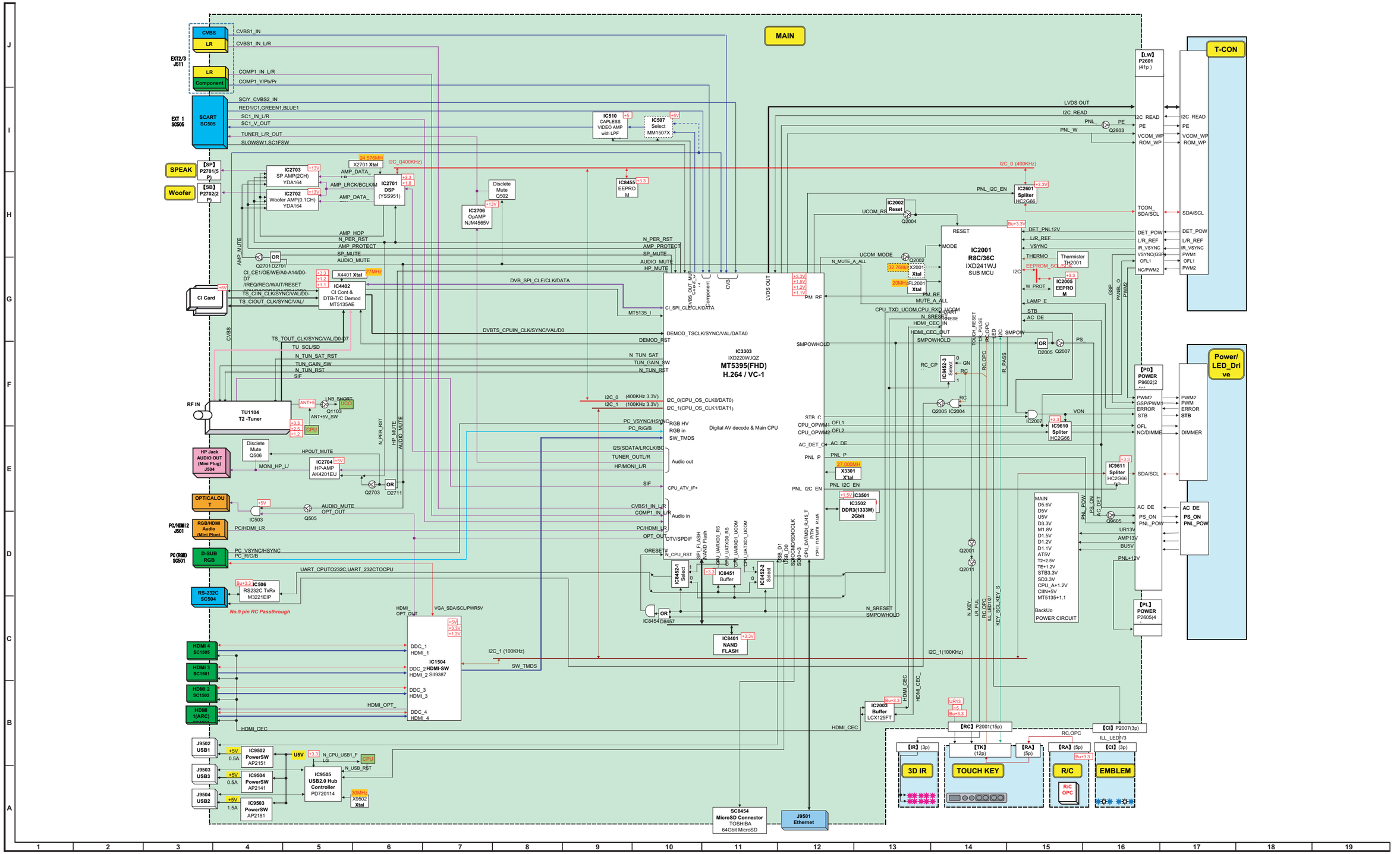
[4] OVERALL WIRING DIAGRAM (LC-60LE831E, S)



[5] SYSTEM BLOCK DIAGRAM (LC-52/60LE830E, RU/833E)



[6] SYSTEM BLOCK DIAGRAM (LC-52/60LE831E, S)



SHARP PARTS GUIDE



No. S81T252LE830E

LCD COLOUR TELEVISION

LC-52/60LE830E/RU
LC-52/60LE831E/S
MODELS LC-52/60LE833E

CONTENTS

[1] PRINTED WIRING BOARD ASSEMBLIES

[2] LCD PANEL MODULE UNIT

[3] CABINET PARTS (LC-52LE830E,RU/831E,S/833E)

[4] CABINET PARTS (LC-60LE830E,RU/831E,S/833E)

[5] SUPPLIED ACCESSORIES/ PACKING PARTS (LC-52LE830E,RU/831E,S/833E)

[6] SUPPLIED ACCESSORIES/ PACKING PARTS (LC-60LE830E,RU/831E,S/833E)

[7] SERVICE JIGS (USE FOR SERVICING)

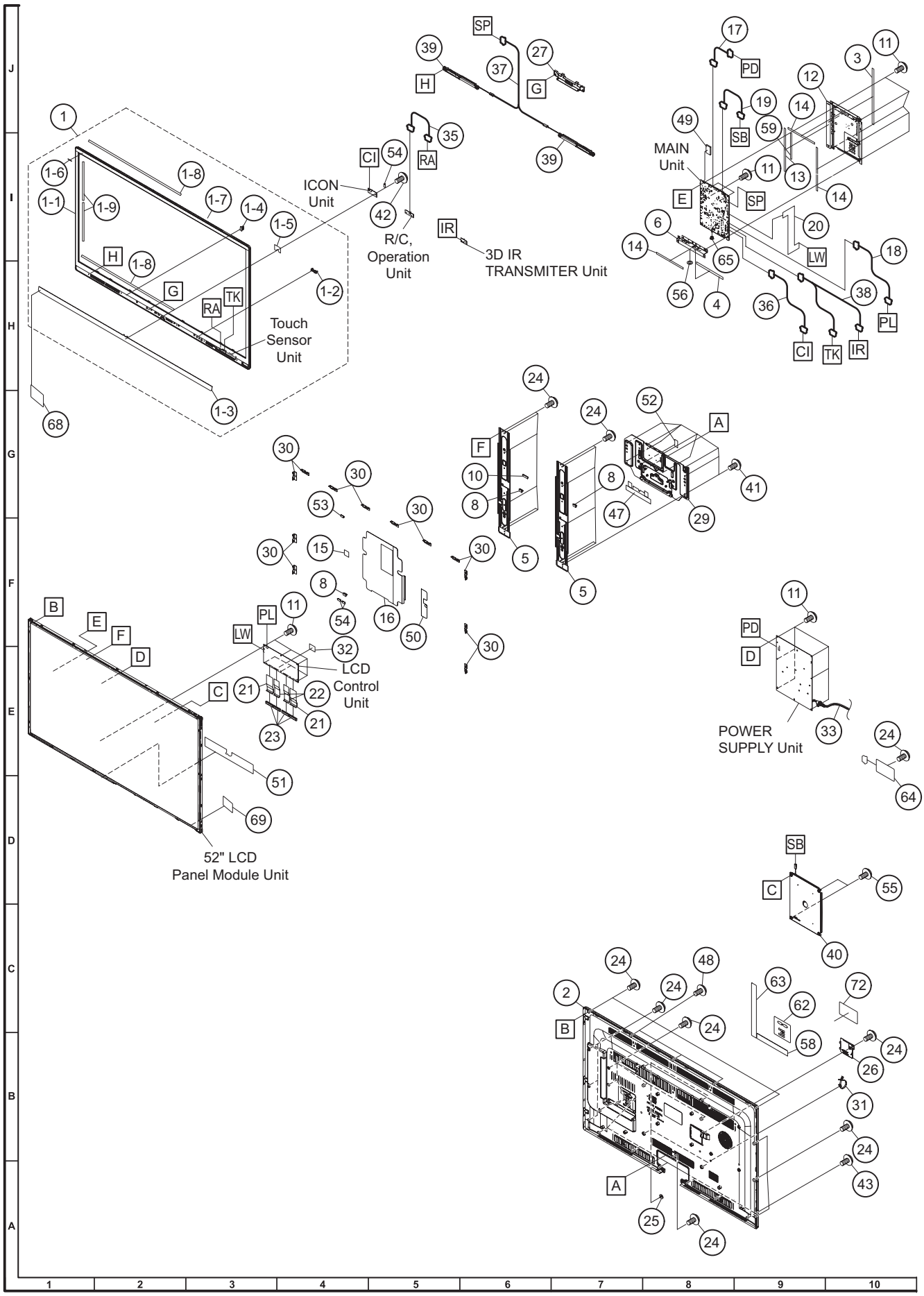
Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

SHARP CORPORATION

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The contents are subject to change without notice.

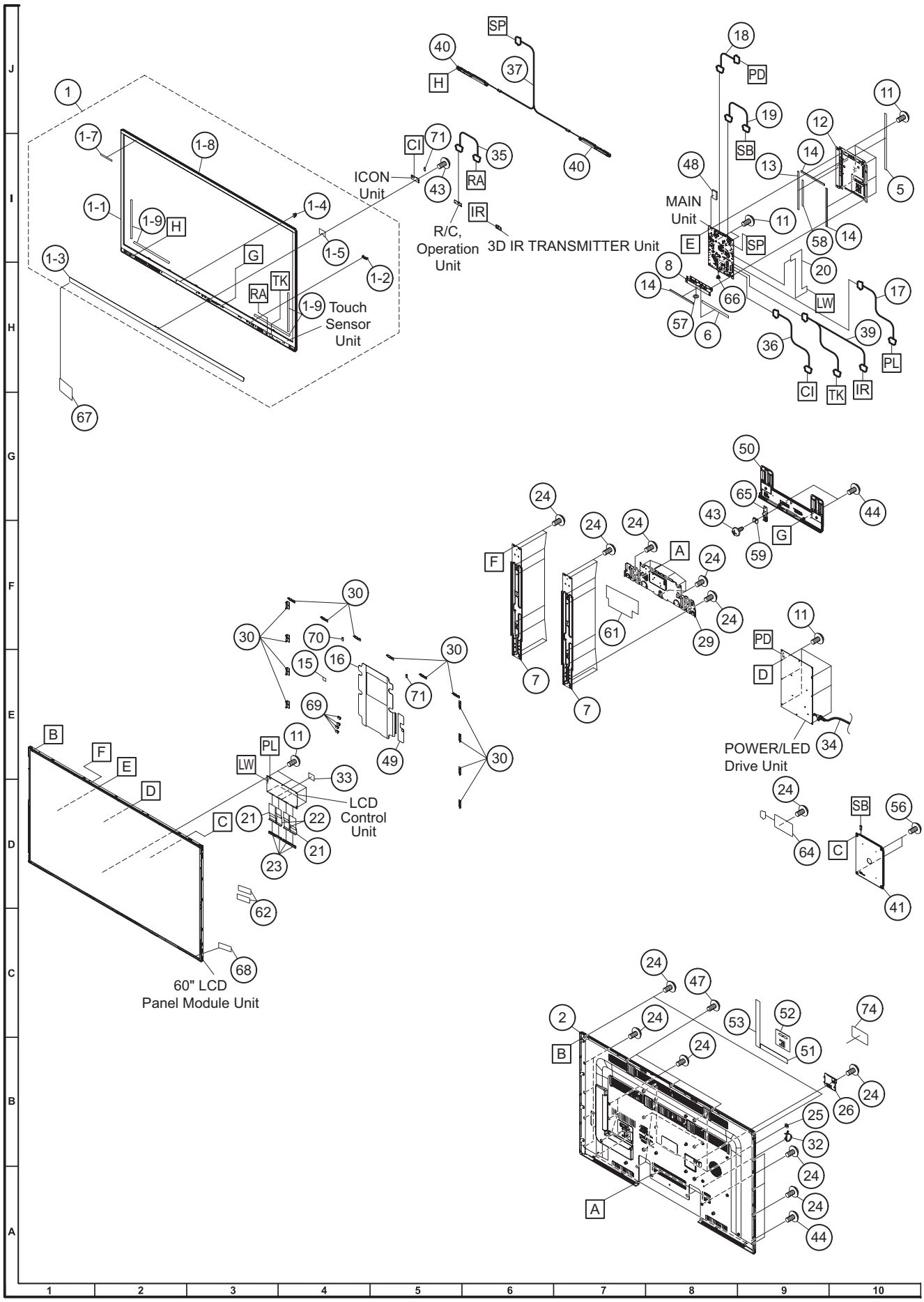
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[1] PRINTED WIRING BOARD ASSEMBLIES					
N	DKEYDF733FM51	CF	N	P	MAIN Unit (LC-52/60LE830E,RU)
N	DKEYDF733FM52	CG	N	P	MAIN Unit (LC-52/60LE831E,S)
N	DKEYDF733FM54		N	P	MAIN Unit (LC-52/60LE833E)
N	DUNTKF494FM02	AP		P	R/C, OPERATION Unit
N	DUNTKF770FM51	AP		P	ICON Unit
N	RUNTKA869WJQZ	AZ		P	TOUCH SENSOR Unit
N	RUNTKA819WJQZ	AU		P	3D IR TRANSMITTER Unit
⚠ N	RUNTKA795WJQZ		N	P	POWER SUPPLY Unit (LC-50LE830E,RU/831E,S/833E)
⚠ N	RUNTKA799WJN1		N	P	POWER SUPPLY Unit (LC-60LE830E,RU/831E,S/833E)
N	RUNTK4909TPYX		N	P	LCD CONTROL Unit (LC-50LE830E,RU/831E,S/833E)
N	RUNTK4909TPYN		N	P	LCD CONTROL Unit (LC-60LE830E,RU/831E,S/833E)
[2] LCD PANEL MODULE UNIT					
N	R1LK520D3GW4BY		N	P	52 LCD PANEL (LK520D3GW4BY)
N	R1LK600D3GW4BH		N	P	60 LCD PANEL (LK600D3GW4BH)

[3] CABINET PARTS (LC-52LE830E,RU/831E,S/833E)



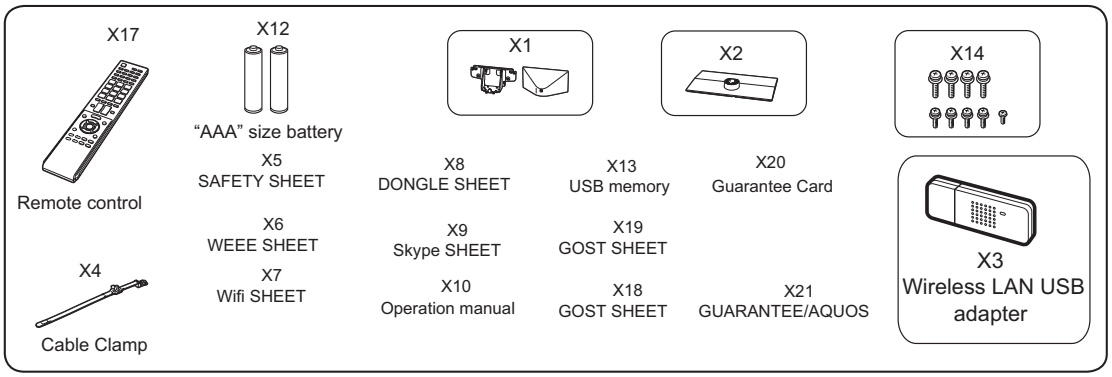
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[3] CABINET PARTS (LC-52LE830E,RU/831E,S/833E)					
1	CCABAC655WJ34			P	Front Cabinet ASS'y
1-1	Not Available	−	N	−	Front Cabinet
1-2	GCOVAD966WJ3A			P	R/C, OPERATION Cover
1-3	HDECQB541WJ3A		N	P	Front Decoration
1-4	LHLDWA133WJKZ	AC		P	Wire Holder
1-5	PSHEPB131WJKZ			P	Sheet
1-6	TLABZC680WJZZ	AH		P	Quattron 3D Label
1-7	PSHEZA341WJZZ		N	P	PROTECT TAPE C
1-8	PSPAHB223WJ3Z			P	Himeron, x2
1-9	PSPAHB957WJZZ			P	Himeron, x2
2	GCABBB908WJ2A		N	P	Rear Cabinet Ass'y
3	HDECPA090WJZZ			P	Decoration Sheet (Side)
4	HDECPA091WJZZ			P	Decoration Sheet (Bottom)
5	LANGKD121WJM1			P	Center Angle, x2
6	LANGKD148WJFW			P	Terminal Angle (Bottom) (for LC-52LE830E/833E)
6	LANGKD192WJFW			P	Terminal Angle (Bottom) (for LC-52LE831E/831S)
8	LHLDWA138WJKZ	AC		P	Wire Holder, x2
10	LHLDWA176WJUZ	AC		P	Wire Holder
11	LX-BZA207WJF7	AA		P	Screw, x19
12	PSLDMB751WJFW			P	Main PWB Shield
13	PSPAZC690WJZZ			P	Spacer
14	PSPAZC691WJZZ	AE		P	Spacer, x3
15	PSPAZC702WJKZ	AQ		P	Spacer
16	PZETKA580WJKZ	AN		P	Insulator Sheet
17	QCNW-L590WJQZ	AM		P	Connecting Cord (PD:MAIN-POW)
18	QCNW-L596WJQZ	AE		P	Connecting Cord (PL:MAIN-LCDCTL)
19	QCNW-L618WJQZ	AF		P	Connecting Cord (SB:MAIN-WOOFER)
20	QCNW-L628WJQZ	AX		P	Connecting Cord (LW:MAIN-LCDTL)
21	QCNWN2733TPZZ	AF		P	Connecting Cord (80P:MDL-CTL), x2
22	QCNWN2734TPZZ	AF		P	Connecting Cord (64P:MDL-CTL), x2
23	RCORFA061WJZZ	AG		P	Core, x4
24	XBPS830P06WS0	AA		P	Screw, x36
25	GCOVHA137WJSA	AB		P	Vesa Hole Cover, x4
26	GCOVAD969WJ1A			P	AC Cord Cover
27	GCOVAD973WJ1A			P	Bottom Cover
29	LANGKD124WJM1	BD		P	Stand T-CON Angle
30	LANGKD127WJFW	AD		P	Fixing Metal Angle, x12
31	LHLDWA303WJKA	AE	N	P	Cable Clamp
32	PSPAZC062WJKZ	AG		P	Spacer
⚠ 33	QACCKA055WJPZ	AQ		P	AC Cord (for LC-52LE830E/831S/833E)
⚠ 33	QACCBA106WJPZ			P	AC Cord (for LC-52LE831E)
35	QCNW-L600WJQZ	AL	N	P	Connecting Cord (RA:KEY-R/C)
36	QCNW-L601WJQZ	AL	N	P	Connecting Cord (CI:MAN-EMBLEM)
37	QCNW-L604WJQZ	AH	N	P	Connecting Cord (SP:MAIN-SP(L/R))
38	QCNW-M017WJQZ		N	P	Connecting Cord (RC:MAIN-KEY/IR)
39	RSP-ZA512WJQZ	BC		P	Speaker (L/R)
40	RSP-ZA513WJQZ	BC		P	Speaker (Sub Woofer)
41	RSP-ZA513WJQZ			P	Woofer
42	XEBS830P08000	AA		P	Screw
43	XEBS830P12000	AA		P	Screw, x7
47	PZETKA634WJKZ			P	Barrier Sheet
48	LX-BZA401WJN1	AC		P	Screw, x3
49	PSPAGA963WJZZ			P	PC Sheet
50	PZETKA589WJKZ	AD		P	Insulation Sheet
51	PZETKA611WJKZ			P	Insulator (FFC)
52	TLABZC935WJZZ			P	Caution Label
53	LHLDWA282WJKZ	AC		P	Wire Holder
54	LHLDWA294WJUZ	AC		P	Wire Holder, x7
55	LX-BZA364WJF7	AB		P	Screw (for Woofer), x2
56	LX-NZA049WJFN	AC		P	Hexagon Screw (for LC-52LE830E,RU)
57	PMLT-A676WJZZ			P	Gasket
58	HiNDPE032WJSA			P	P_INDICATOR/BTM (for LC-52LE830E/833E)
58	HiNDPE122WJSA			P	P_INDICATOR/BTM (for LC-52831E,S)
59	PSPAHC021WJZZ			P	HMLN 20*5*0.35
60	PSPAHC472WJZZ			P	HMLN 70*8*0.35
62	HiNDPE035WJSA			P	P_INDICATOR/BCK
63	HiNDPE117WJSA			P	P_INDICATOR/SID
⚠ 64	QCNW-M091WJQZ2		N	P	Connecting Cord (AS:POW-SW)
65	QEARZ0057CEFW	AB		P	Earth Spring (for LC-52LE830E,RU)
68	TLABZD005WJZZ			P	ENERGY LABEL
69	TLABZC453WJZZ			P	Plane Label
72	TLABNC177WJZZ			P	P-Label/MODEL

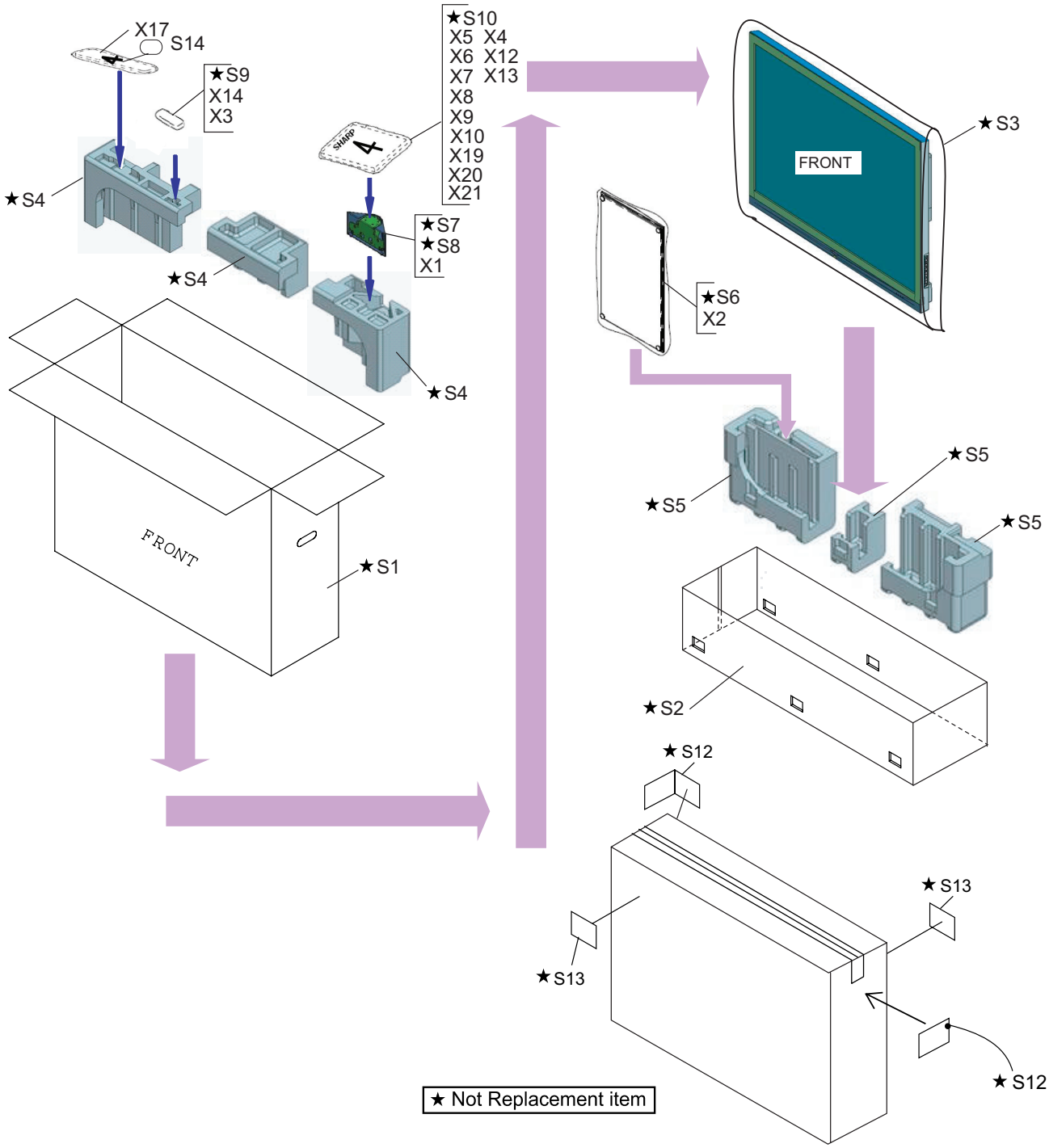
[4] CABINET PARTS (LC-60LE830E,RU/831E,S/833E)



NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[4] CABINET PARTS (LC-60LE830E,RU/831E,S/833E)					
1	CCABAC656WJ35		N	P	Front Cabinet ASS'y
1-1	Not Available	−	N	−	Front Cabinet
1-2	GCOVAD966WJ3A			P	R/C, OPERATION Cover
1-3	HDECQB542WJ3A		N	P	Front Decoration
1-4	LHLDWA133WJKZ	AC		P	Wire Holder
1-5	PSHEPB131WJKZ			P	Sheet
1-7	TLABZC635WJZZ	AH		P	Quattron 3D Label
1-8	PSHEZA342WJZZ		N	P	PROTECT TAPE C
1-9	PSPAKA486WJKZ	AD		P	SPACER45*3*0.6T, x4
2	GCABBB937WJ2A		N	P	Rear Cabinet Ass'y
5	HDECPA090WJZZ			P	Decoration Sheet (Side)
6	HDECPA091WJZZ			P	Decoration Sheet (Bottom)
7	LANGKD122WJM1			P	Center Angle, x2
8	LANGKD148WJFW			P	Terminal Angle (Bottom) (for LC-60LE830E,RU/833E)
8	LANGKD192WJFW			P	Terminal Angle (Bottom) (for LC-60LE831E,S)
11	LX-BZA207WJF7	AA		P	Screw, x19
12	PSLDMB751WJFW			P	Main PWB Shield
13	PSPAZC690WJZZ			P	Spacer
14	PSPAZC691WJZZ	AE		P	Spacer, x3
15	PSPAZC702WJKZ	AQ	N	P	Spacer
16	PZETKA581WJKZ	AN	N	P	Insulator Sheet
17	QCNW-L587WJQZ	AE		P	Connecting Cord (PL:MAIN-LCDCTL)
18	QCNW-L608WJQZ	AM	N	P	Connecting Cord (SB:MAIN-WOOFER)
19	QCNW-L620WJQZ	AF	N	P	Connecting Cord (SB:MAIN-WOOFER)
20	QCNW-L629WJQZ	AY	N	P	Connecting Cord (LW:MAIN-LCDTL)
21	QCNWN2731TPZZ	AF	N	P	Connecting Cord (80P:MDL-CTL), x2
22	QCNWN2732TPZZ	AF	N	P	Connecting Cord (64P:MDL-CTL), x2
23	RCORFA061WJZZ	AG		P	Core, x4
24	XBPS830P06WS0	AA		P	Screw, x51
25	GCOVHA137WJSA	AB		P	VESA Hole Cover, x4
26	GCOVAD969WJ1A			P	AC Cord Cover
29	LANGKD126WJM1			P	Stand T-CON Angle
30	LANGKD127WJFW	AD		P	Fixing Metal Angle, x14
32	LHLDWA303WJKA	AE		P	Cable Clamp
33	PSPAZC062WJKZ	AG		P	Spacer
⚠ 34	QACCKA055WJPZ	AQ		P	AC Cord (for LC-60LE830E/830RU/833E)
⚠ 34	QACCBA106WJPZ			P	AC Cord (for LC-60LE831E)
35	QCNW-L600WJQZ	AL	N	P	Connecting Cord (RA:KEY-R/C)
36	QCNW-L610WJQZ	AL	N	P	Connecting Cord (CI:MAN-EMBLEM)
37	QCNW-L613WJQZ	AH	N	P	Connecting Cord (SP:MAIN-SP(L/R))
39	QCNW-M018WJQZ		N	P	Connecting Cord (RC:MAIN-KEY/IR)
40	RSP-ZA512WJQZ	BC		P	Speaker (L/R), x2
41	RSP-ZA513WJQZ	BC		P	Speaker (Sub Woofer)
43	XEBS830P08000	AA		P	Screw, x2
44	XEBS830P12000	AA		P	Screw, x9
47	LX-BZA401WJN1	AC		P	Screw, x3
48	PSPAGA963WJZZ			P	PC Sheet
49	PZETKA589WJKZ	AD	N	P	Insulation Sheet
50	GCOVAE178WJ1A		N	P	P_COVER/BOTTOM
51	HiNDPE032WJSA			P	P_INDICATOR/BTM (for LC-60LE830E,RU/833E)
51	HiNDPE122WJSA			P	P_INDICATOR/BTM (for LC-60LE831E,S)
52	HiNDPE035WJSA			P	P_INDICATOR/BCK
53	HiNDPE117WJSA			P	P_INDICATOR/SID
56	LX-BZA364WJF7	AB		P	Screw (for Woofer), x2
57	LX-NZA049WJFN	AC		P	Hexagon Screw (for LC-60LE830E,RU)
58	PMLT-A676WJZZ			P	Gasket
59	PMLT-A684WJZZ		N	P	Gasket
61	PZETKA638WJKZ		N	P	Barrier Sheet
62	PZETKA639WJKZ		N	P	INSULATION FFC, x2
⚠ 64	QCNW-M091WJQZ2		N	P	Connecting Cord (AS:POW-SW)
65	QEARPA388WJFW			P	Earth Angle (for LC-60LE830E,RU)
66	QEARZ0057CEFW	AB		P	Earth Spring (for LC-60LE830E,RU)
67	TLABZD006WJZZ		N	P	ENERGY LABEL
68	TLABZC453WJZZ			P	PLANE LABEL
69	LHLDWA138WJKZ	AC		P	Wire Holder, x4
70	LHLDWA282WJKZ	AC		P	Wire Holder
71	LHLDWA294WJUZ	AC		P	Wire Holder, x5
74	TLABNC177WJZZ			P	P-Label/MODEL

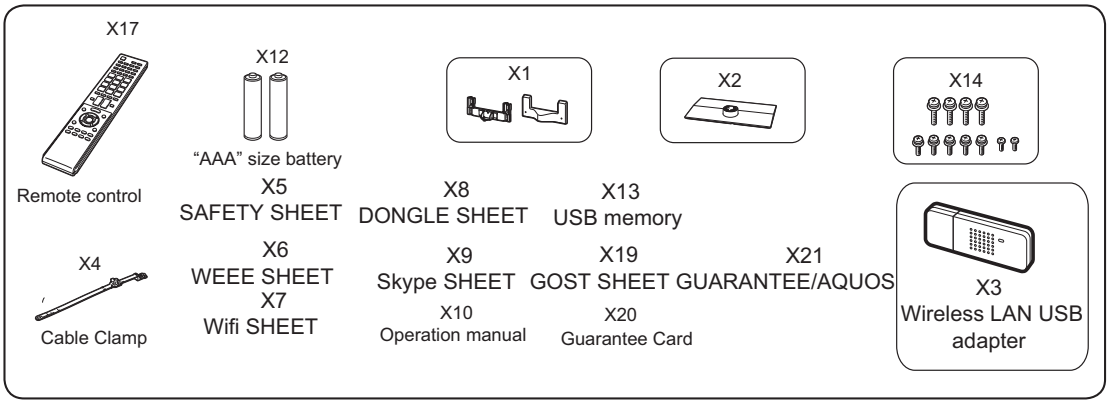
[5] SUPPLIED ACCESSORIES/PACKING PARTS (LC-52LE830E,RU/831E,S/833E)

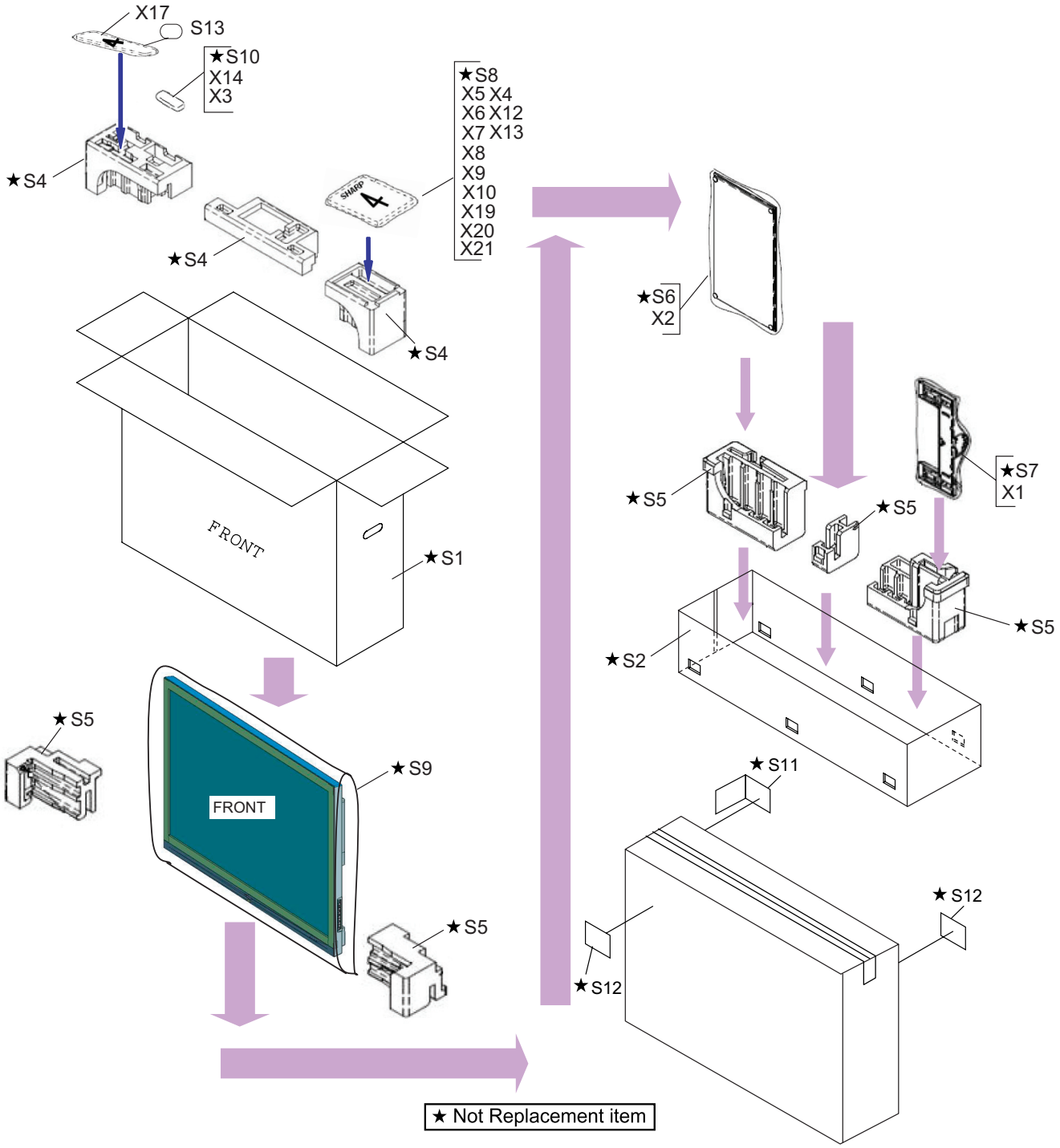




NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[5] SUPPLIED ACCESSORIES/PACKING PARTS (LC-52LE830E,RU/831E,S/833E)					
X1	CANGKD136WJ01	AW		P	STAND SUPT ASSY
X2	CDAi-A774WJ04			P	STAND BASE ASSY
X3	Ki-OUA003WJQZ	BD		P	Wireless LAN USB adapter
X4	LHLDWA303WJKA	AE		P	P_HOLDER/WH
X5	TCAUZA445WJZZ			P	SAFETY SHEET
X6	TCAUZA446WJZZ			P	WEEE SHEET
X7	TCAUZA458WJN1			P	Wifi SHEET
X8	TCAUZA463WJZZ		N	P	DONGLE SHEET
X9	TCAUZA467WJZZ		N	P	Skype SHEET
X10	TiNS-F162WJZZ		N	P	Initial setup guide
X12	Not Available	–		–	LR03(AAA size alkaline) battery
X13	UiMCUA005WJQZ2		N	P	USB memory
X14	CX-BZA399WJ01	AG		P	STAND SCREW ASY
X17	RRMCGA902WJSA	AV		P	Remote control Unit (for LC-52LE830E,RU/831E,S)
X17	RRMCGA959WJSA			P	Remote control Unit (for LC-52LE833E)
X19	TCAUZA482WJZZ		N	P	GOST SHEET (for LC-52LE830RU)
X20	TGAN-B651WJZZ			P	GUARANTEE (for LC-52LE830RU)
X20	TGAN-A801WJN1			P	GUARANTEE (for LC-52LE831E)
X21	TGAN-A802WJN1			P	GUARANTEE/AQUOS (for LC-52LE831E)
S1	SPAKCF964WJZZ	–		–	CARTON BOX (NOT REPLACEMENT ITEM)
S2	SPAKCF965WJZZ	–		–	P-CASE BOTTOM (NOT REPLACEMENT ITEM)
S3	SPAKPB766WJZZ	–		–	HOSO-PP (NOT REPLACEMENT ITEM)
S4	SPAKXD157WJZZ	–		–	AD PAD_TOP/EPS (NOT REPLACEMENT ITEM)
S5	SPAKXD244WJZZ	–		–	AD PAD_BTM/EPS (NOT REPLACEMENT ITEM)
S6	SPAKPB700WJZZ	–		–	STAND MAT BASE (NOT REPLACEMENT ITEM)
S7	SPAKFC110WJZZ	–	N	–	SUPPORT PP (NOT REPLACEMENT ITEM)
S8	SPAKFC111WJZZ	–	N	–	ANGLE PP (NOT REPLACEMENT ITEM)
S9	SPAKFC112WJZZ	–	N	–	PAC (NOT REPLACEMENT ITEM)
S10	SSAKAA111WJZZ	–		–	P_SACKS/B5 (NOT REPLACEMENT ITEM)
S12	TLABM5584BMZZ	–		–	Case Label (NOT REPLACEMENT ITEM)
S13	TLABZC699WJZZ	–		–	Q3D-EISA Label (NOT REPLACEMENT ITEM)
S14	TLABK0023TAZZ	–		–	LABEL FOR R/C (for LC-52LE830E/831E/831S) (NOT REP

[6] SUPPLIED ACCESSORIES/PACKING PARTS (LC-60LE830E,RU/831E,S/833E)





NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[6] SUPPLIED ACCESSORIES/PACKING PARTS (LC-60LE830E,RU/831E,S/833E)					
X1	CANGKD137WJ01	BD	N	P	STAND SUPT ASSY
X2	CDAi-A776WJ04		N	P	STAND BASE ASSY
X3	Ki-OUA003WJQZ	BD		P	Wireless LAN USB adapter
X4	LHLDWA303WJKA	AE		P	P_HOLDER/WH
X5	TCAUZA445WJZZ			P	SAFETY SHEET
X6	TCAUZA446WJZZ			P	WEEE SHEET (for LC-60LE830E/831E/833E)
X7	TCAUZA458WJN1			P	Wifi SHEET
X8	TCAUZA463WJZZ		N	P	DONGLE SHEET
X9	TCAUZA467WJZZ		N	P	Skype SHEET
X10	TiNS-F162WJZZ		N	P	Initial setup guide
X12	Not Available	–		–	LR03(AAA size alkaline) battery
X13	UiMCUA005WJQZ2		N	P	USB memory
X14	CSAKKA010WJ07		N	P	STAND SCREW ASY
X17	RRMCGA902WJSA	AV		P	Remote control Unit (for LC-60LE830E,RU/831E,S)
X17	RRMCGA959WJSA			P	Remote control Unit (for LC-60LE833E)
X19	TCAUZA482WJZZ		N	P	GOST SHEET (for LC-60LE830RU)
X20	TGAN-B651WJZZ			P	GUARANTEE (for LC-60LE830RU)
X20	TGAN-A801WJN1			P	GUARANTEE (for LC-60LE831E)
X21	TGAN-A802WJN1			P	GUARANTEE/AQUOS (for LC-60LE831E)
S1	SPAKCG378WJZZ	–	N	–	CARTON BOX (NOT REPLACEMENT ITEM)
S2	SPAKCG379WJZZ	–	N	–	P-CASE BOTTOM (NOT REPLACEMENT ITEM)
S4	SPAKXD413WJZZ	–	N	–	AD PAD_TOP/EPS (NOT REPLACEMENT ITEM)
S5	SPAKXD414WJZZ	–	N	–	AD PAD_BTM/EPS (NOT REPLACEMENT ITEM)
S6	SPAKPB702WJZZ	–		–	STAND MAT BASE (NOT REPLACEMENT ITEM)
S7	SPAKPB695WJZZ	–	N	–	MIRROR MAT (SUPP) (NOT REPLACEMENT ITEM)
S8	SSAKAA111WJZZ	–		–	P_SACKS/B5 (NOT REPLACEMENT ITEM)
S9	SPAKPB750WJZZ	–	N	–	HOSO-PP (NOT REPLACEMENT ITEM)
S10	SSAKKA010WJZZ	–		–	PACK FOR SCREW (NOT REPLACEMENT ITEM)
S11	TLABM5584BMZZ	–		–	Case Label (NOT REPLACEMENT ITEM)
S12	TLABZC699WJZZ	–		–	Q3D-EISA Label (NOT REPLACEMENT ITEM) (NOT REPLACE
S13	TLABK0023TAZZ	–		–	LABEL FOR R/C (for LC-60LE830E/830RU/831E) (NOT RE
[7] SERVICE JIGS (USE FOR SERVICING)					
N	QCNW-L795WJQZ			J	Connecting Cord L=1000mm 24pins Main to POWER U
N	QCNW-L796WJQZ			J	Connecting Cord L=1000mm 3pins Main to ICON Uni
N	QCNW-K595WJQZ			J	Connecting Cord L=1060mm 5-2/2pins Main to Spea
N	QCNW-G405WJQZ			J	Connecting Cord L=1000mm 4pins Main to LCD Cont
N	QCNW-K597WJQZ			J	Connecting Cord L=1000mm 2pins Main to Woofer (
N	QCNW-F676WJQZ			J	Connecting Cord L=1000mm 41pins Main to LCD Con
N	QCNW-L798WJQZ			J	Connecting Cord L=1000mm 15-12/3pins Main to Touch

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Aug. 2011
SH. DS

SHARP CORPORATION
AV Systems Group
CS Promotion Center
Yaita,Tochigi 329-2193, Japan

SHARP SERVICE MANUAL

No. S81T452LE830E

LCD COLOUR TELEVISION

PWB Unit Edition

MODELS
LC-52/60LE830E/RU/E[B]/RU[B]
LC-52/60LE831E/S/E[B]/S[B]
LC-52/60LE833E/E[B]

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

CONTENTS

OUTLINE

CHAPTER 1. PRINTED WIRING BOARD ASSEMBLIES
[1] MAIN Unit..... 1-1
[2] R/C OPC Unit..... 1-5
[3] ICON Unit..... 1-6

CHAPTER 2. SCHEMATIC DIAGRAM
[1] DESCRIPTION OF SCHEMATIC DIAGRAM.....2-1
[2] SCHEMATIC DIAGRAM.....2-2

Parts Guide

Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

SHARP CORPORATION

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The contents are subject to change without notice.

OUTLINE

- **We inform you that service parts in the PWB Unit.**

Unit

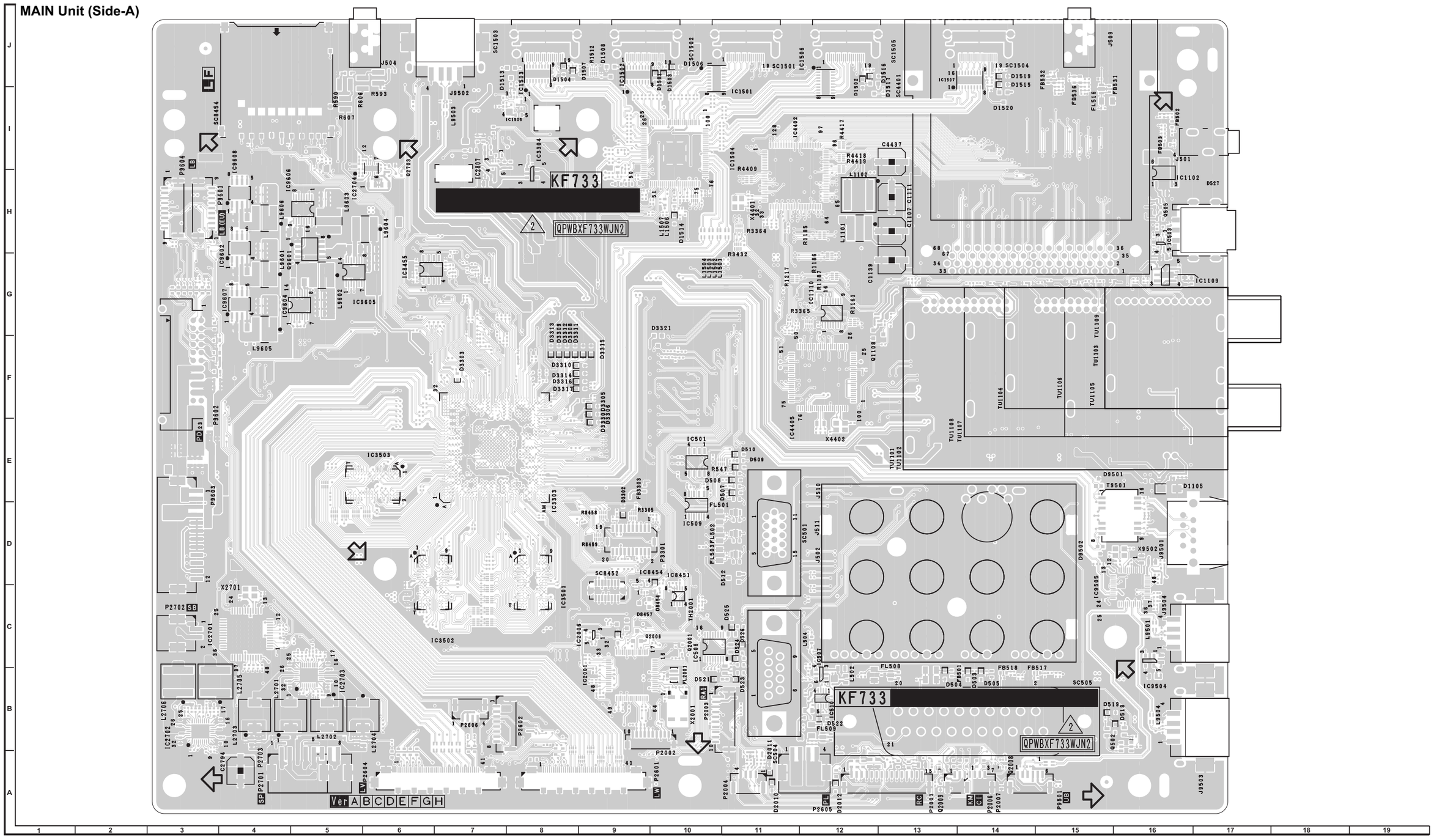
Model Name	Unit Name	Description
LC-52LE830E, RU LC-60LE830E, RU	DKEYDF733FM51	MAIN Unit
LC-52LE831E, S LC-60LE831E, S	DKEYDF733FM52	MAIN Unit
LC-52LE833E LC-60LE833E	DKEYDF733FM54	MAIN Unit
LC-52LE830E, RU LC-60LE830E, RU	DUNTKF494FM02	R/C OPC Unit
LC-52LE831E, S LC-60LE831E, S LC-52LE833E LC-60LE833E	DUNTKF770FM51	ICON Unit

NOTE: *1 Replace MAIN PWB Unit (DKEYDF733FM**) in case of IC8401 or IC3303 failure.

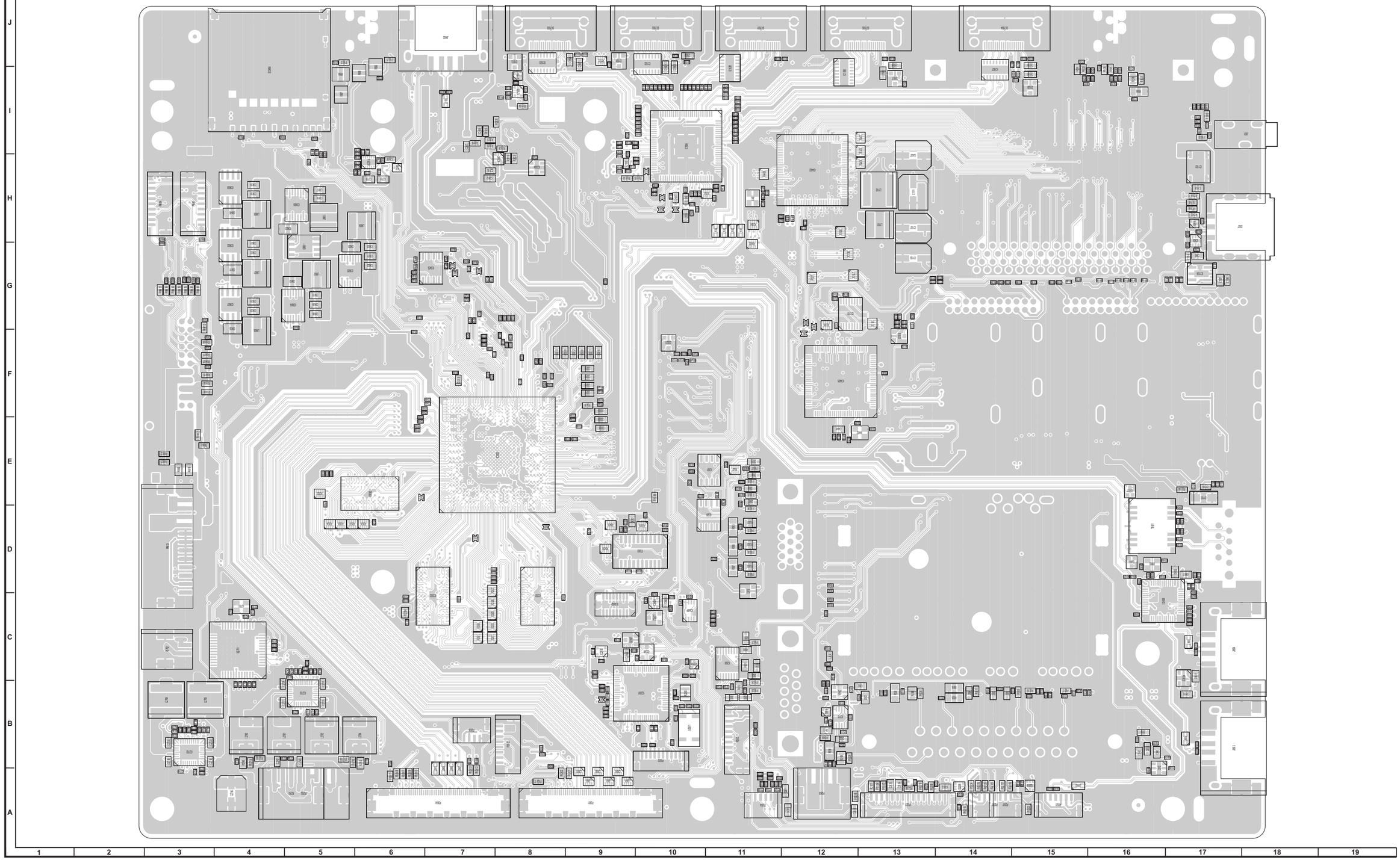
CHAPTER 1. PRINTED WIRING BOARD ASSEMBLIES

[1] MAIN Unit

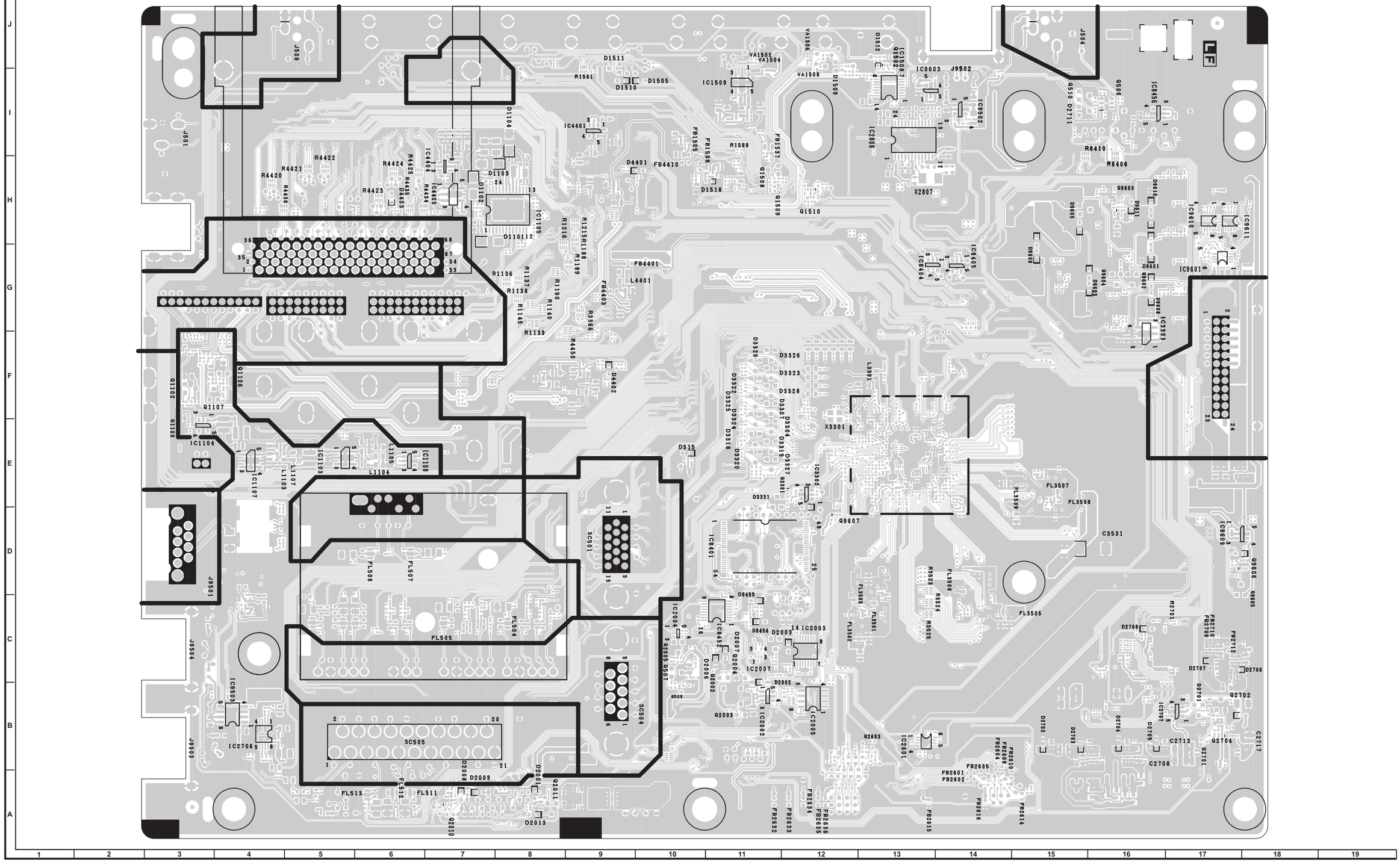
MAIN Unit (Side-A)



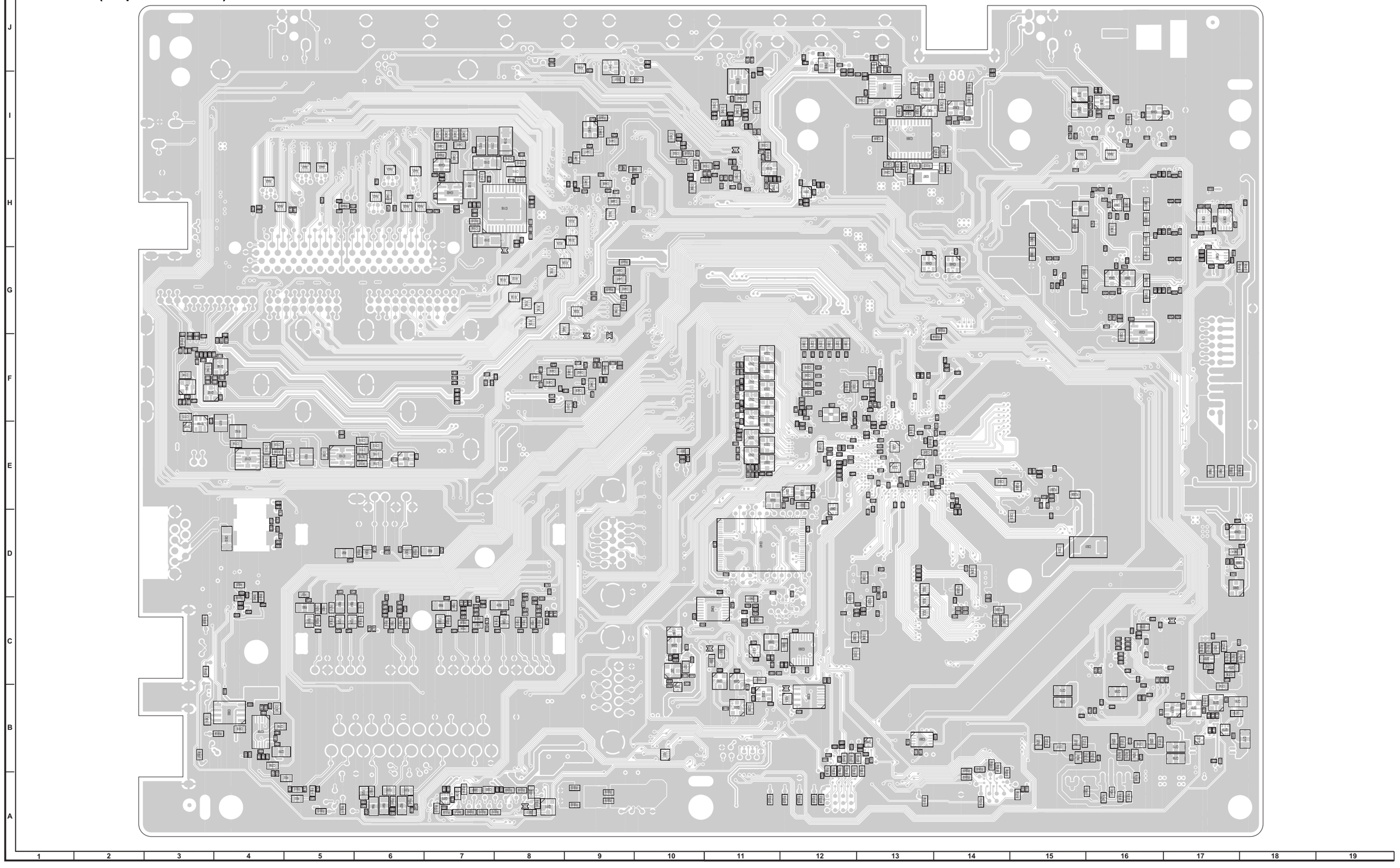
MAIN Unit (Chip Parts Side-A)



MAIN Unit (Side-B)

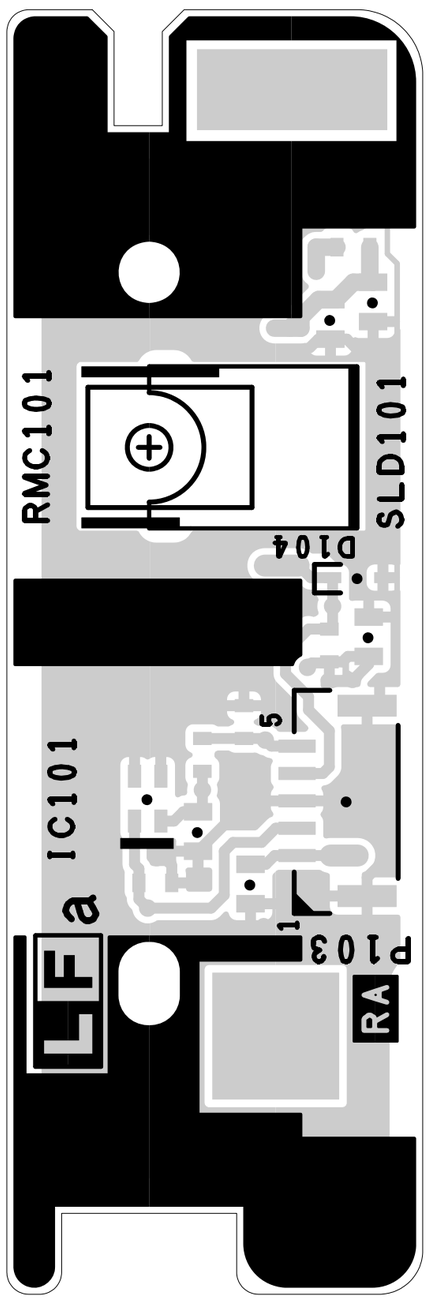


MAIN Unit (Chip Parts Side-B)

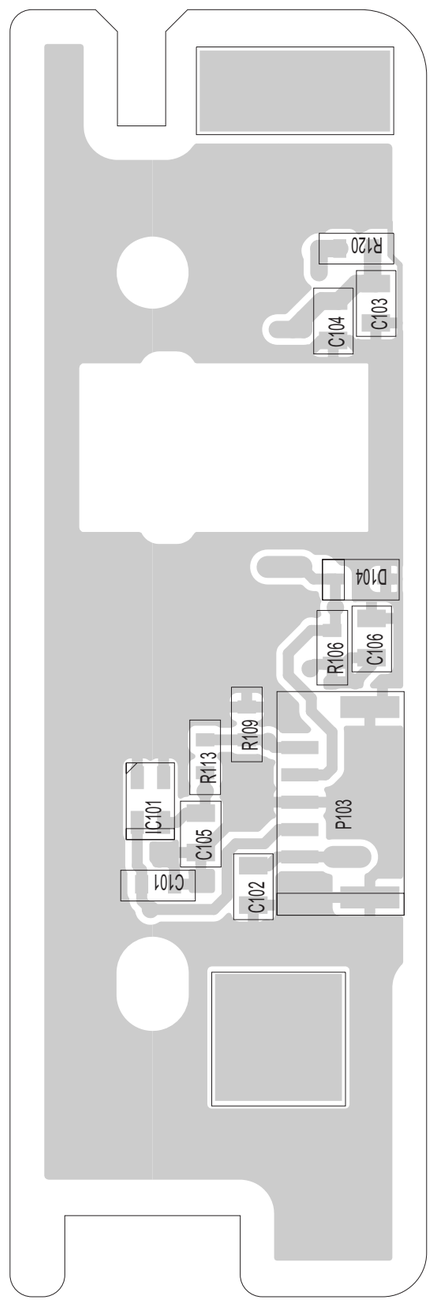


[2] R/C OPC Unit

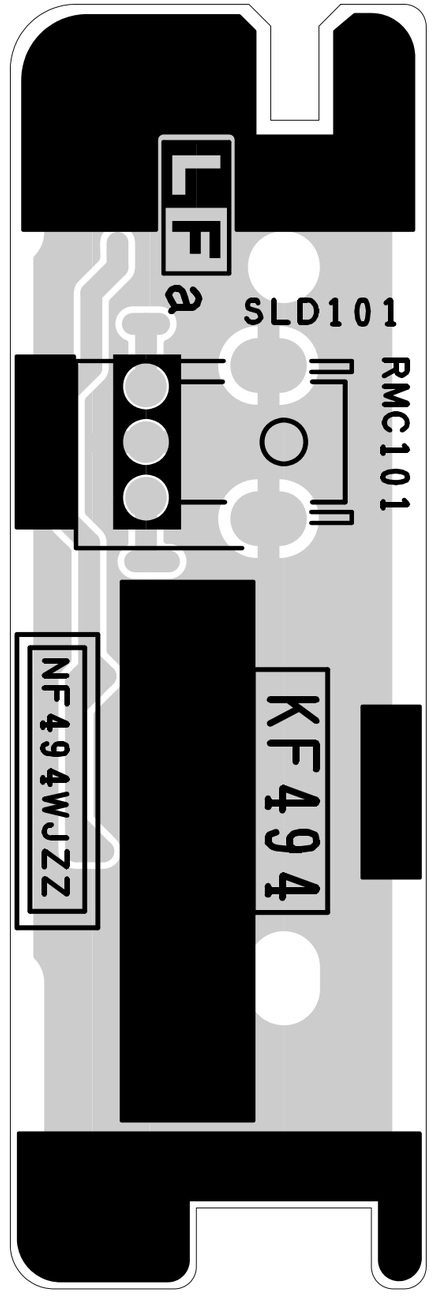
R/C OPC Unit (Side-A)



R/C OPC Unit (Chip Parts Side-A)

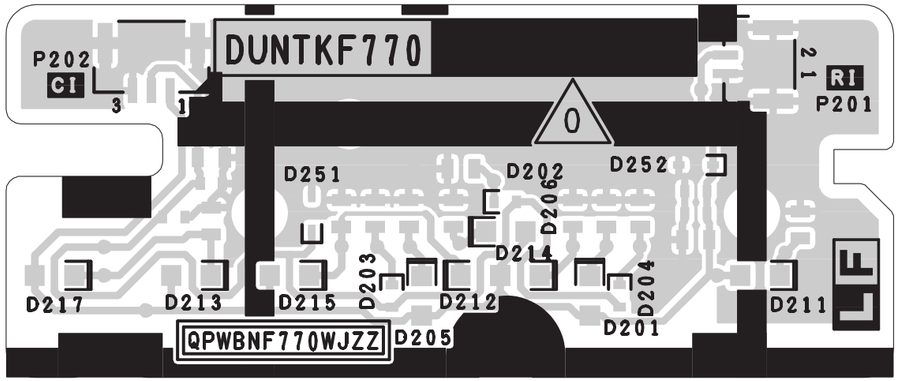


R/C OPC Unit (Side-B)

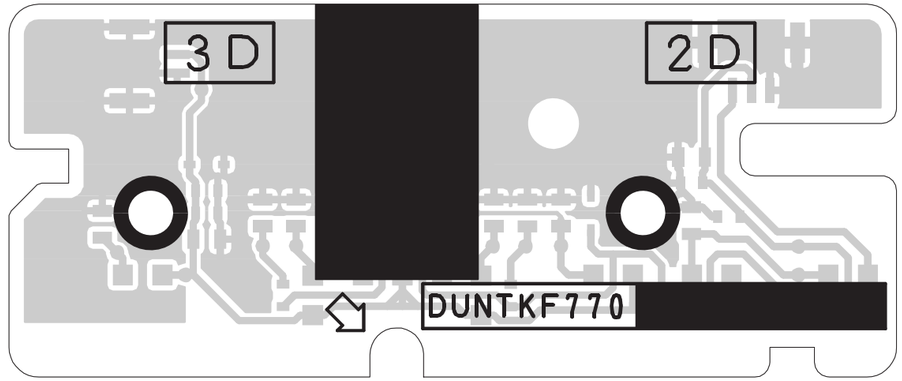


[3] ICON Unit

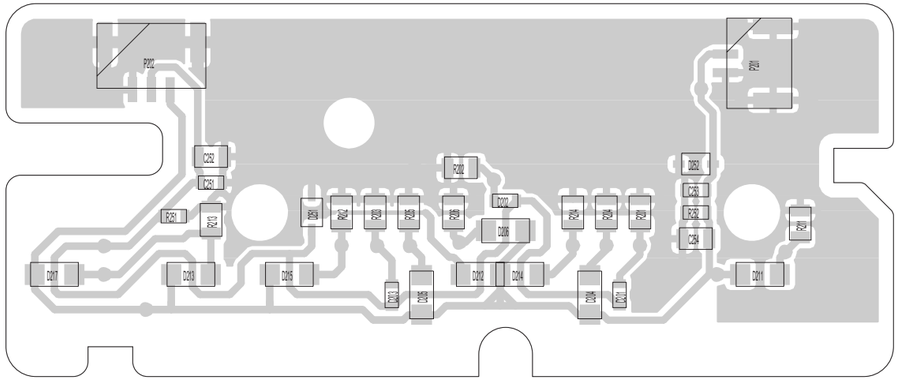
ICON Unit (Side-A)



ICON Unit (Side-B)



ICON Unit (Chip Parts Side-A)



CHAPTER 2. SCHEMATIC DIAGRAM

[1] DESCRIPTION OF SCHEMATIC DIAGRAM

1. VOLTAGE MEASUREMENT CONDITION:

1) The voltages at test points are measured on exclusive AC adaptor and the stable supply voltage of AC 220 - 240 V.
 Signals are fed by a color bar signal generator for servicing purpose and the above voltages are measured with a 20k ohm/V tester.

2. INDICATION OF RESISTOR & CAPACITOR:

RESISTOR

1) The unit of resistance "Ω" is omitted.
 (K=kΩ=1000Ω, M=MΩ).
2) All resistors are ± 5%, unless otherwise noted.
 (K= ± 10%, F= ± 1%, D= ± 0.5%)
3) All resistors are 1/16W, unless otherwise noted.

CAPACITOR

1) All capacitors are μF, unless otherwise noted.
 (P=pF=μμF).
2) All capacitors are 50V, unless otherwise noted.

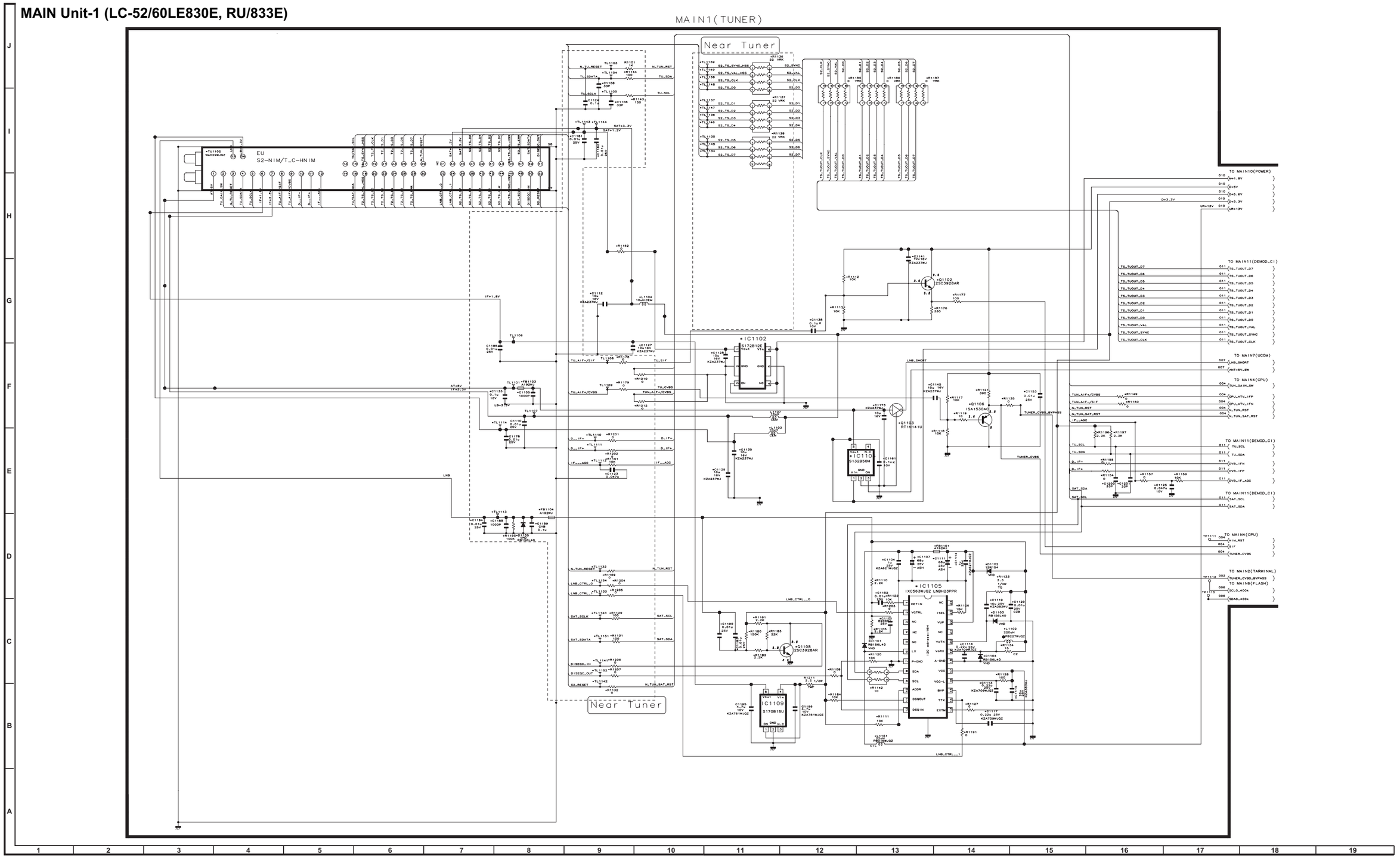
CAUTION:
This circuit diagram is original one, therefore there may be a slight difference from yours.

SAFETY NOTES:
1) DISCONNECT THE AC PLUG FROM THE AC OUTLET BEFORE REPLACING PARTS.
2) SEMICONDUCTOR HEAT SINKS SHOULD BE REGARDED AS POTENTIAL SHOCK HAZARDS WHEN THE CHASSIS IS OPERATING.

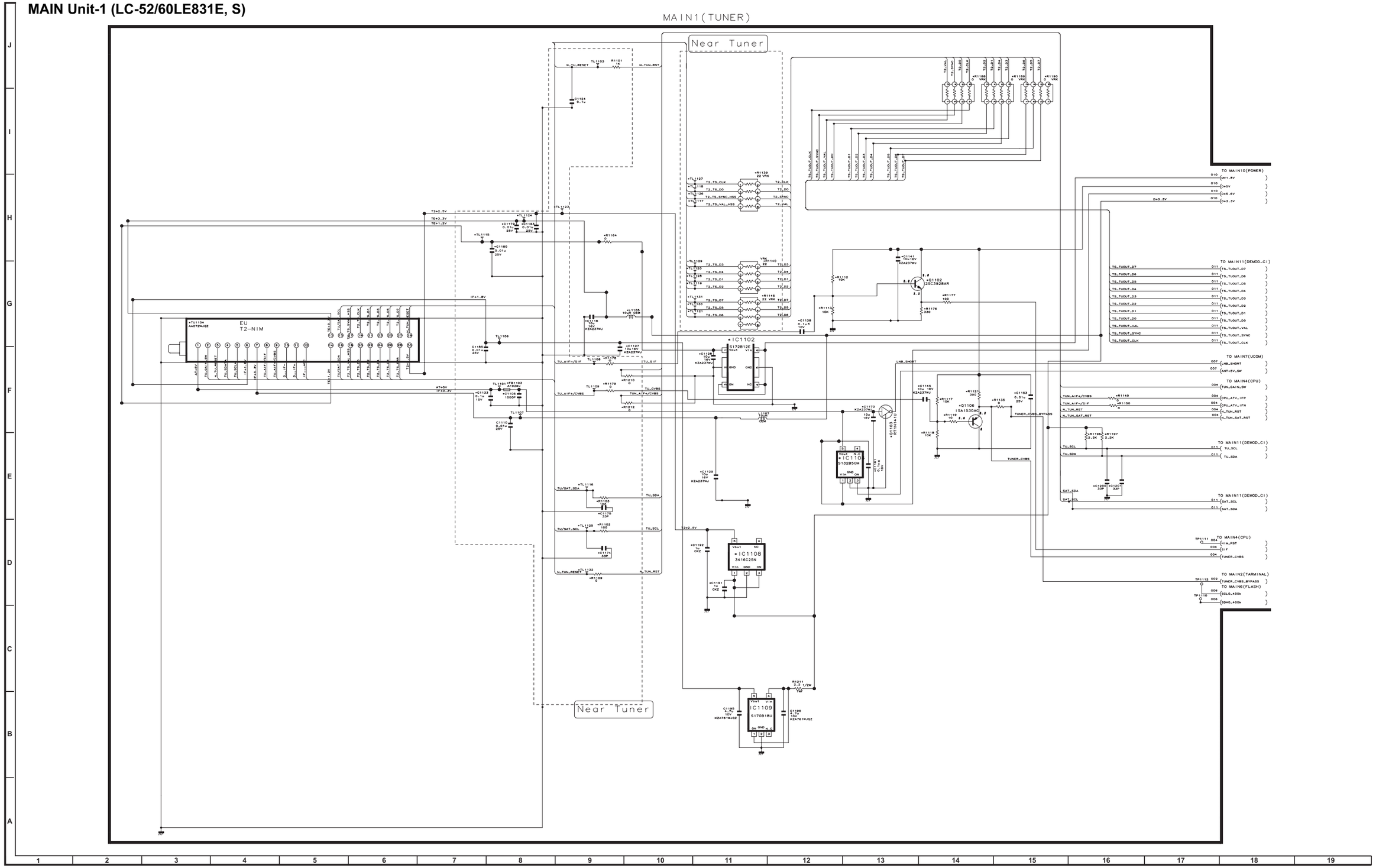
IMPORTANT SAFETY NOTICE:
PARTS MARKED WITH " ⚠ " () ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

[2] SCHEMATIC DIAGRAM

MAIN Unit-1 (LC-52/60LE830E, RU/833E)

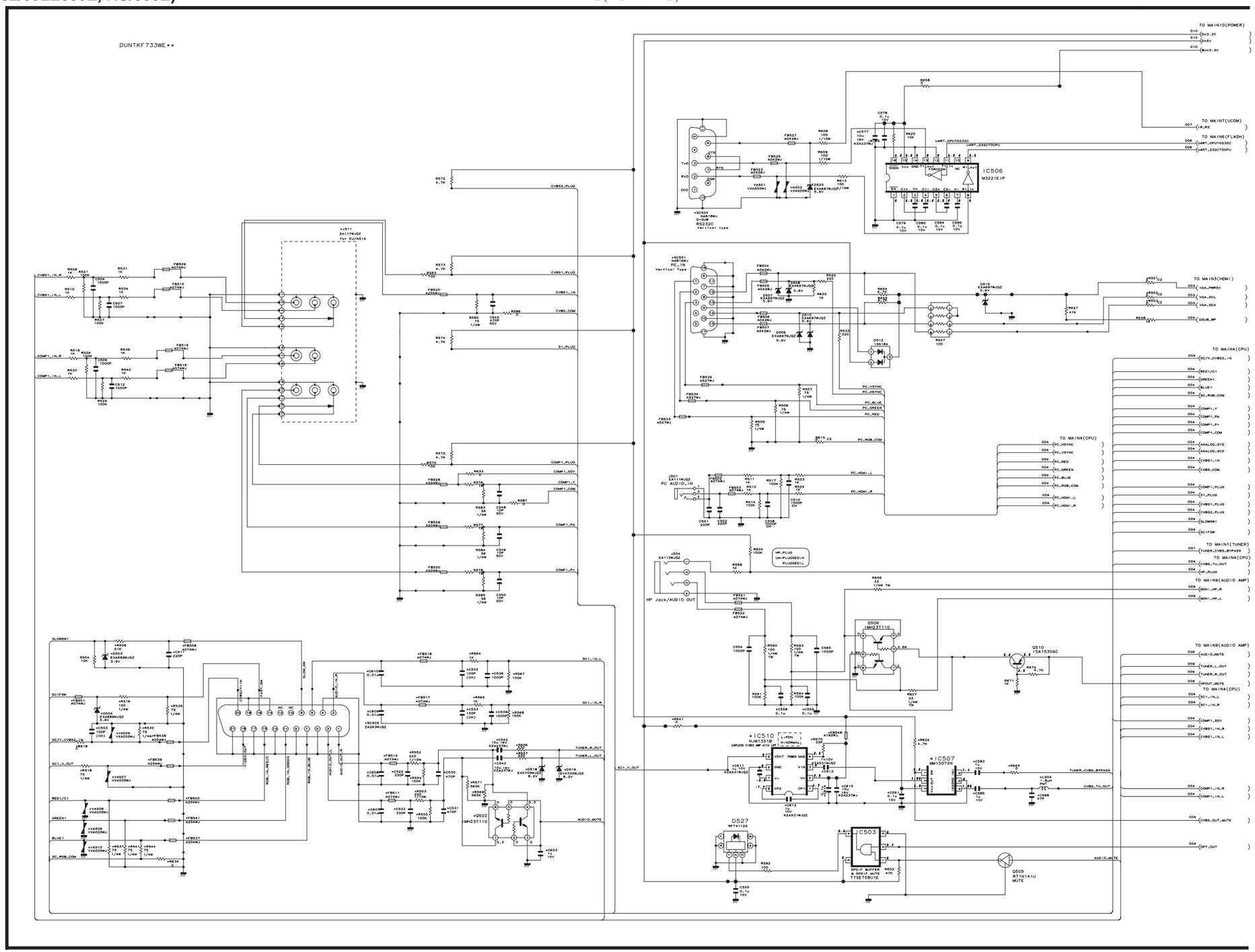


MAIN Unit-1 (LC-52/60LE831E, S)



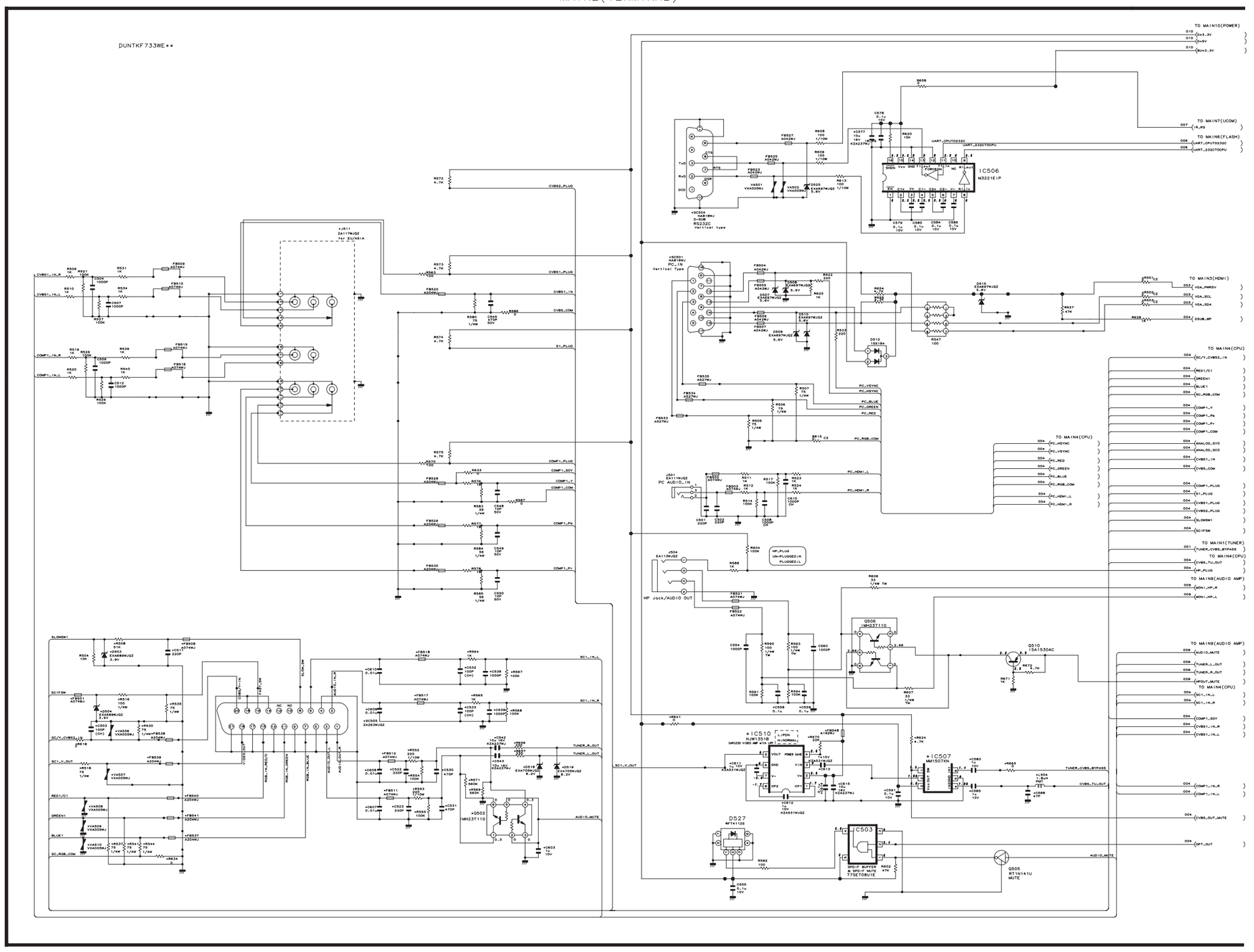
MAIN Unit-2 (LC-52/60LE830E, RU/833E)

MAIN2(TERMINAL)

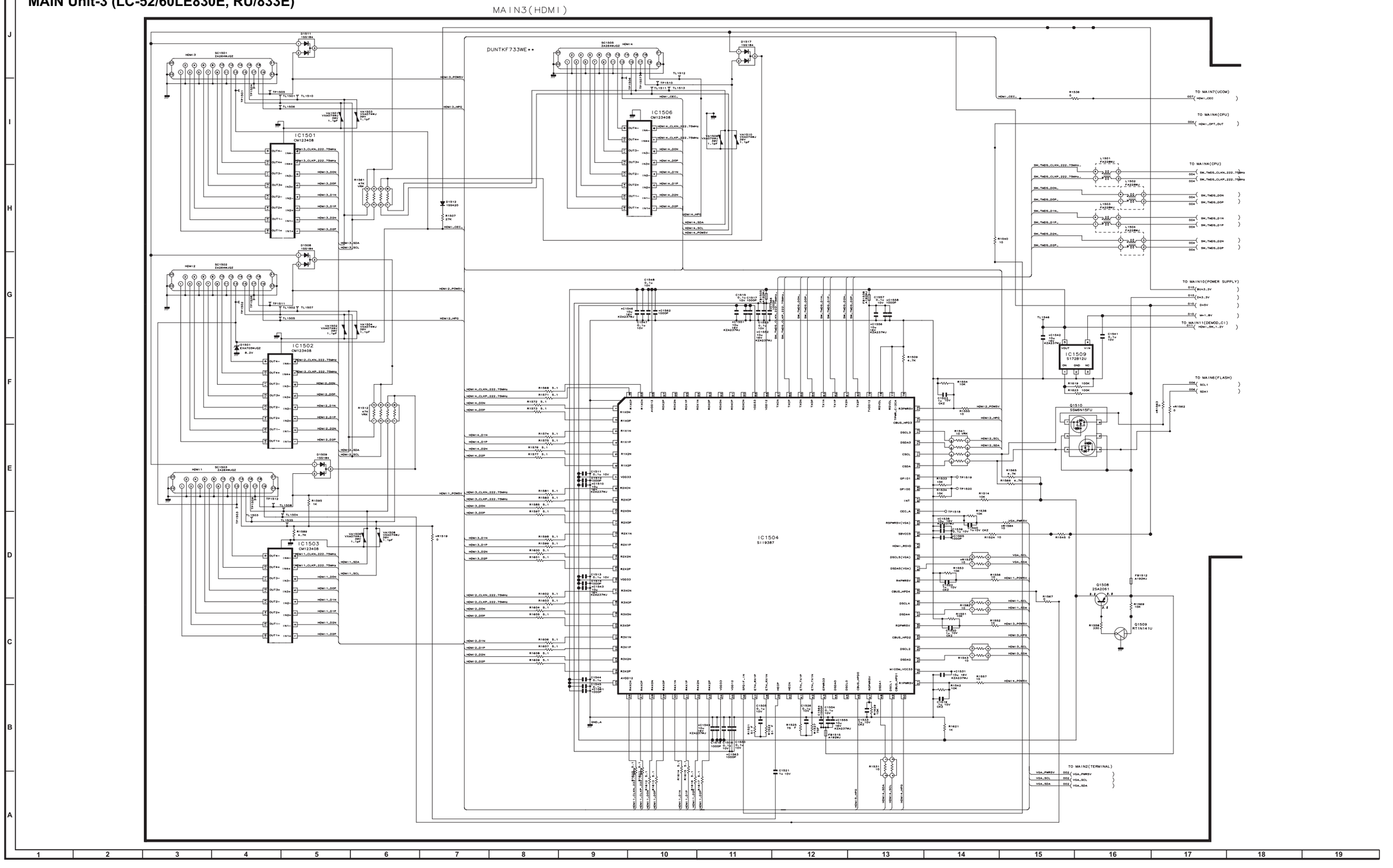


MAIN Unit-2 (LC-52/60LE831E, S)

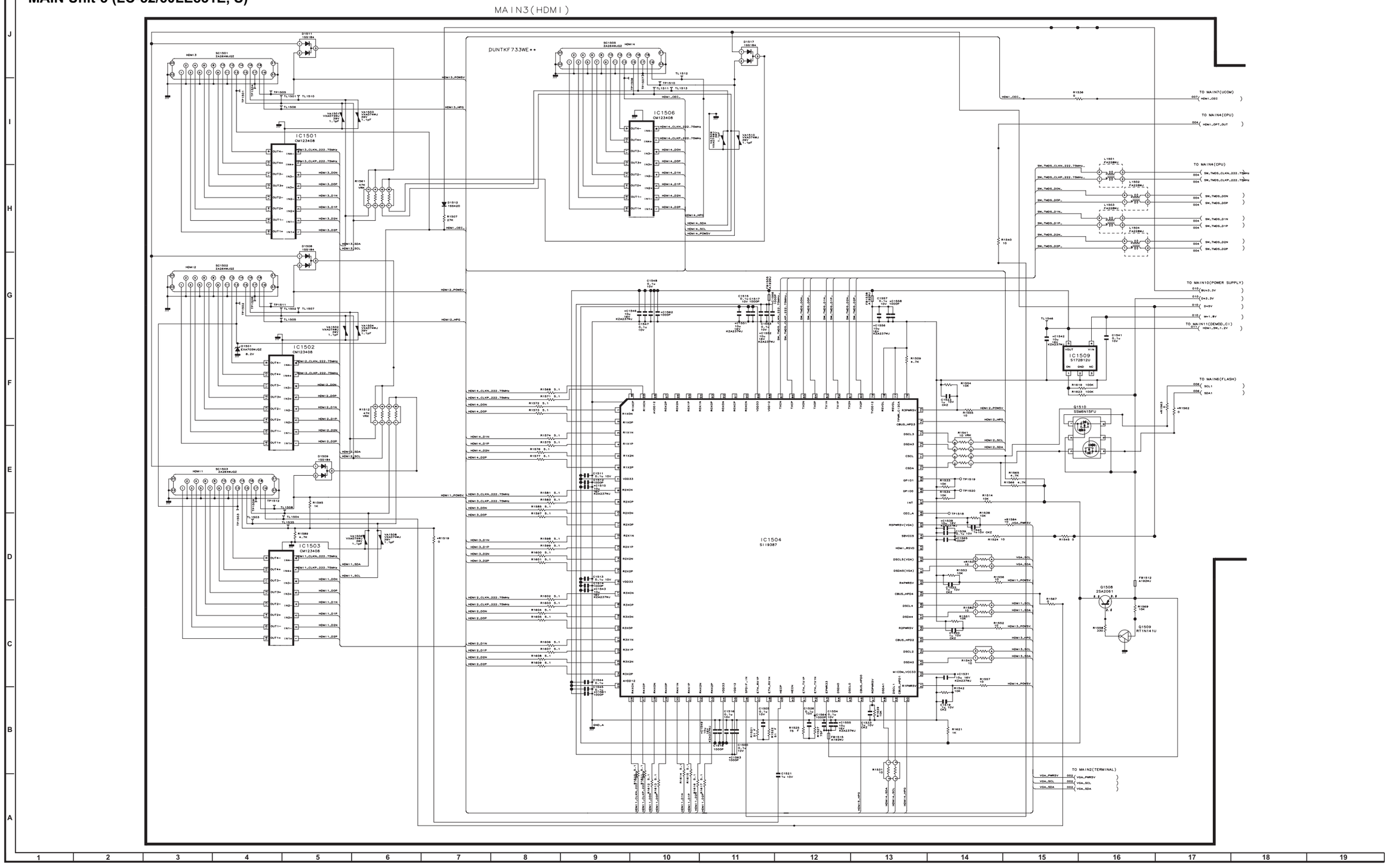
MAIN2(TERMINAL)



MAIN Unit-3 (LC-52/60LE830E, RU/833E)

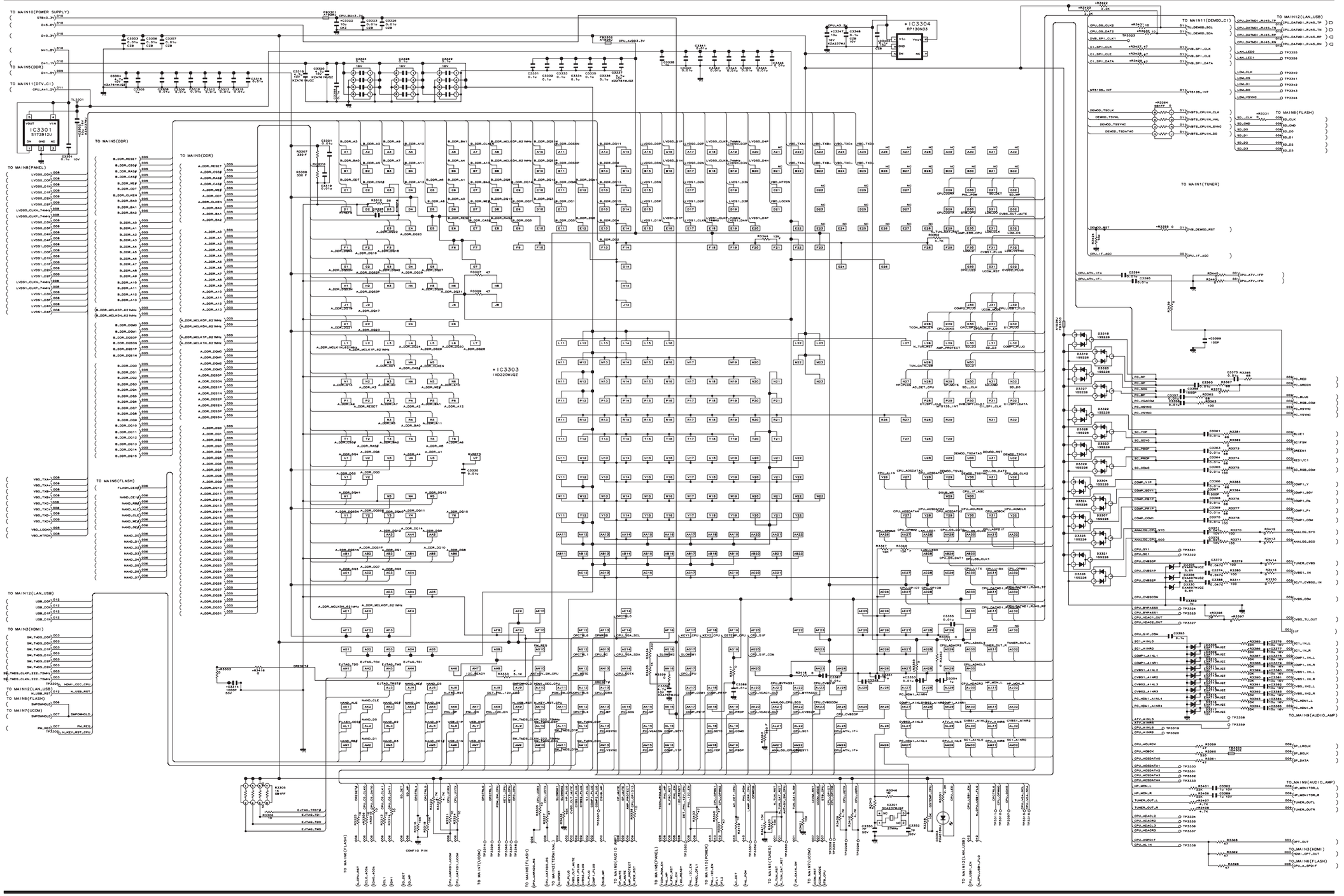


MAIN Unit-3 (LC-52/60LE831E, S)



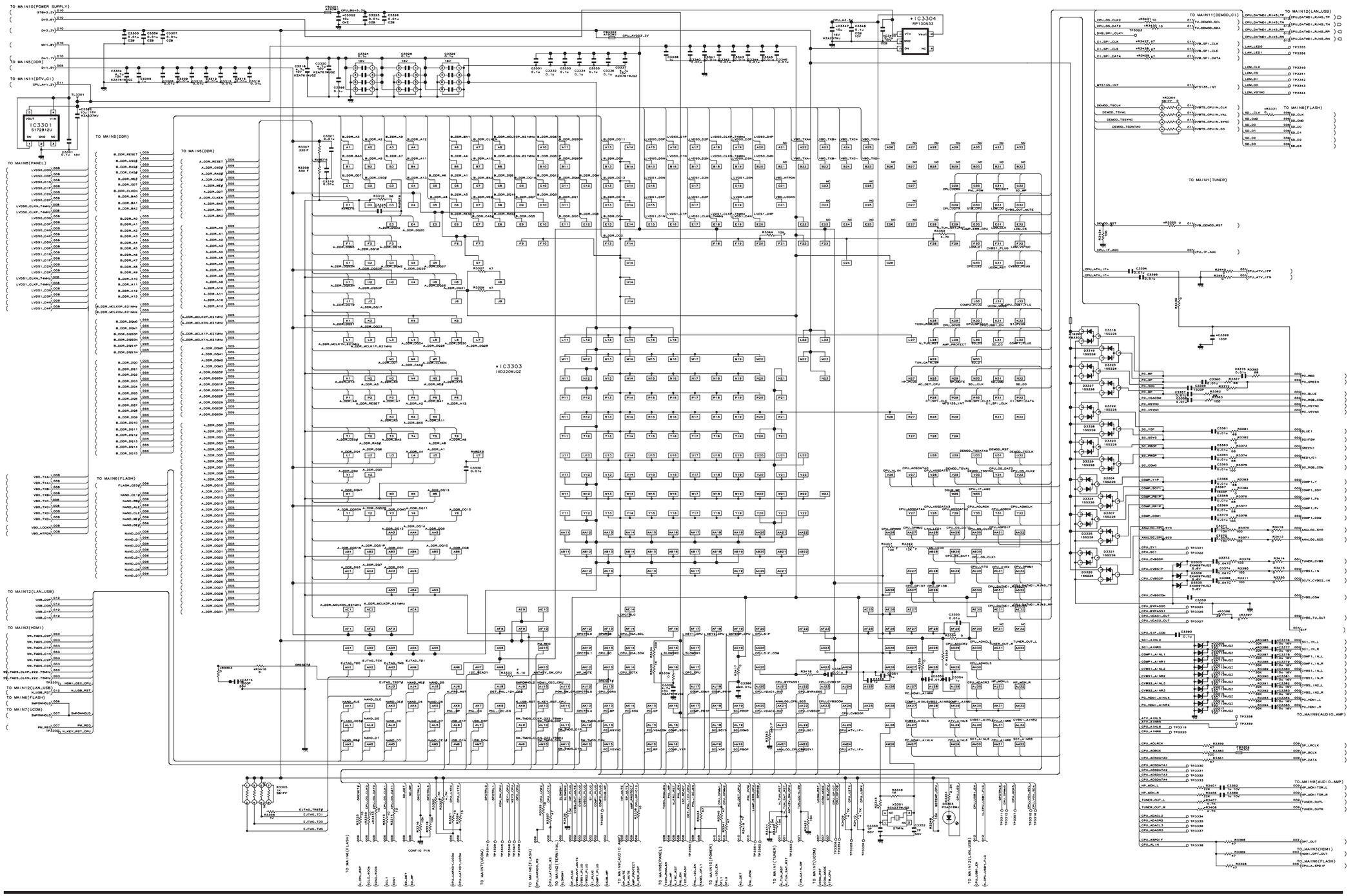
MAIN Unit-4 (LC-52/60LE830E, RU/833E)

MAIN4 (CPU)

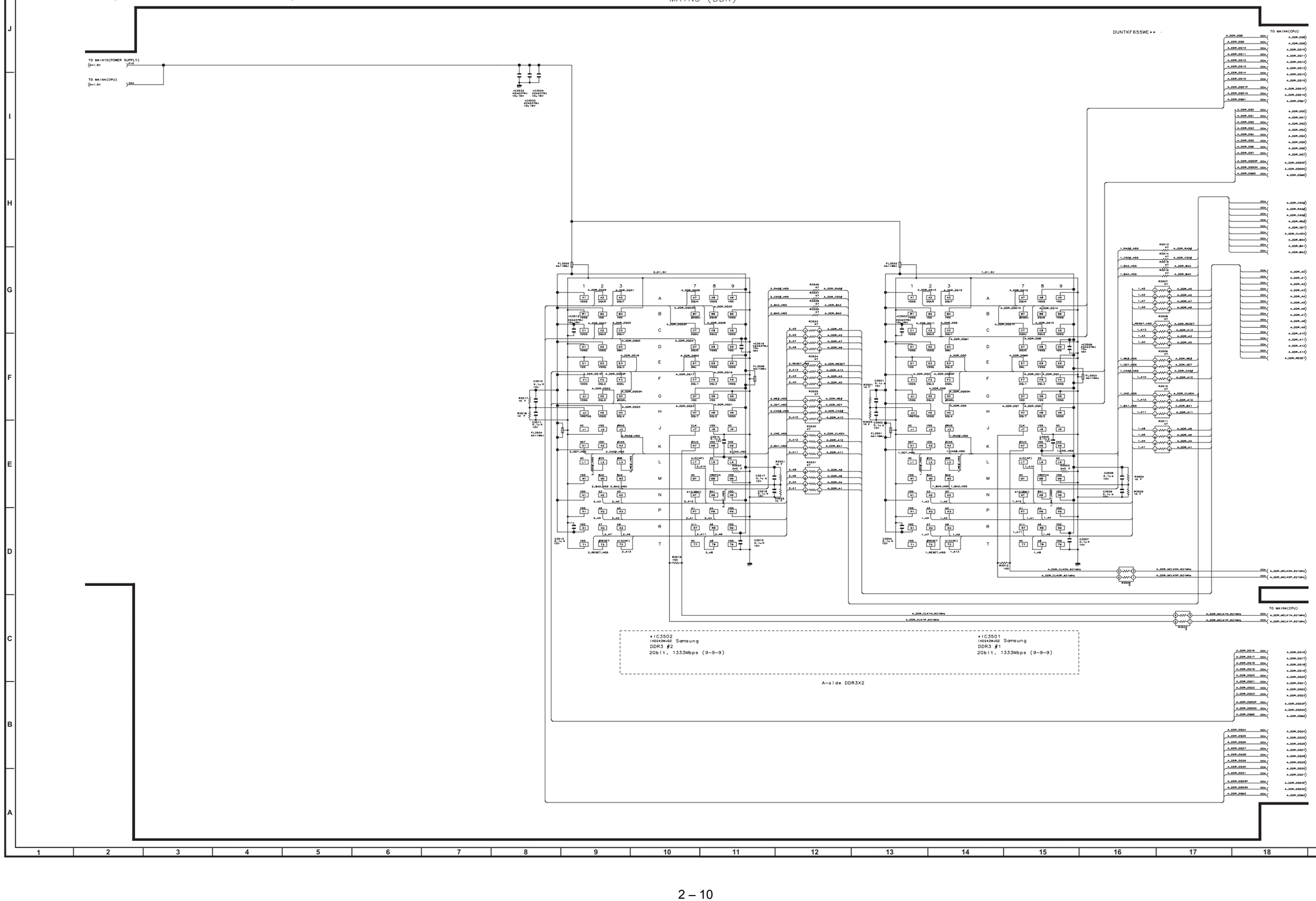


MAIN Unit-4 (LC-52/60LE831E, S)

MAIN4 (CPU)



MAIN Unit-5 (LC-52/60LE830E, RU/833E)



MAIN Unit-5 (LC-52/60LE831E, S)

MAIN5 (DDR)

TO MAIN10(POWER SUPPLY)
(5V1.8V)

TO MAIN4(CPU)
(5V1.5V)

DUNTKF655WE**

TO MAIN4(CPU)

TO MAIN4(CPU)

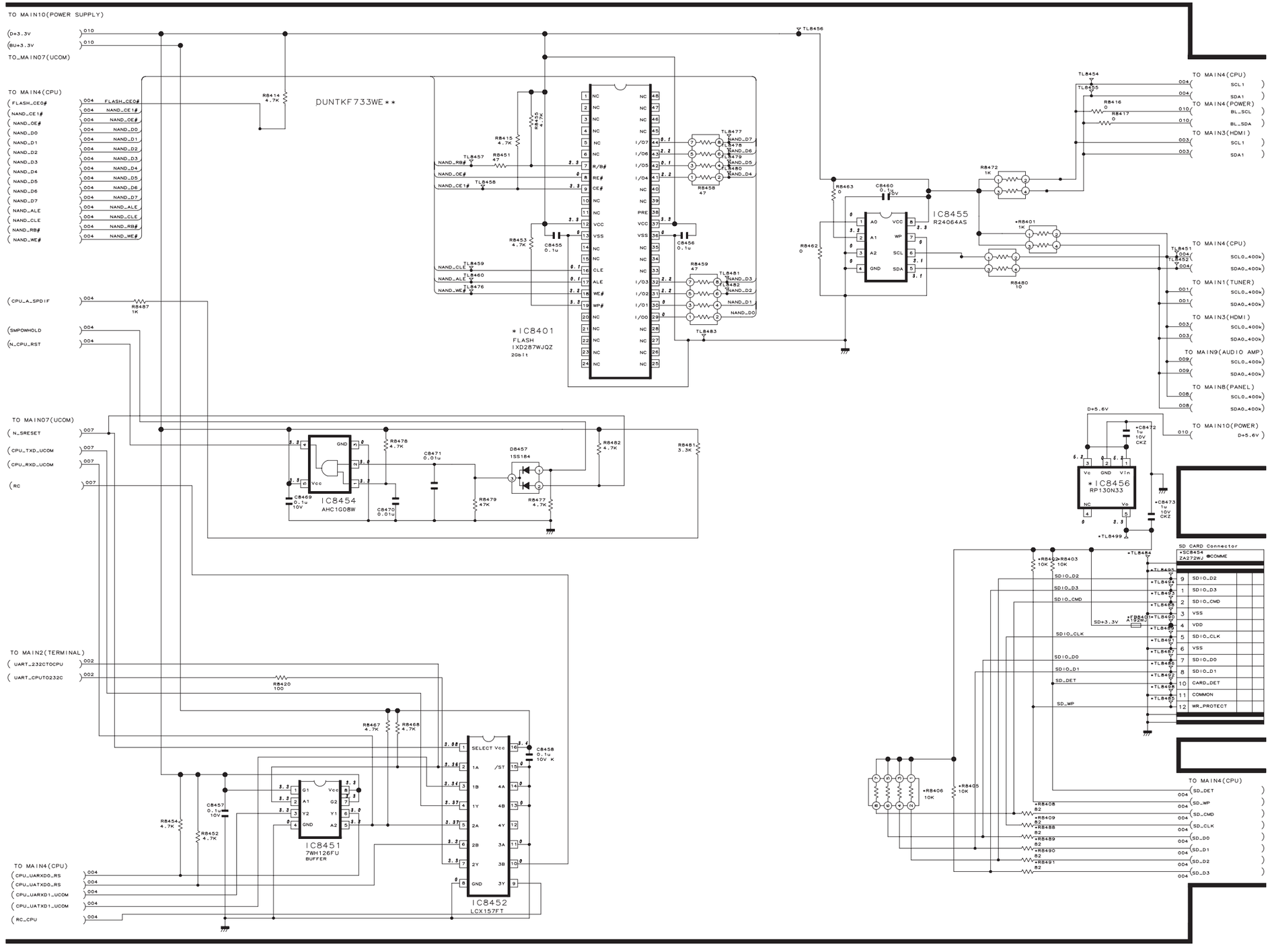
*IC3502
IXD242WJ02 Samsung
DDR3 #2
2Gbit, 1333Mbps (9-9-9)

*IC3501
IXD242WJ02 Samsung
DDR3 #1
2Gbit, 1333Mbps (9-9-9)

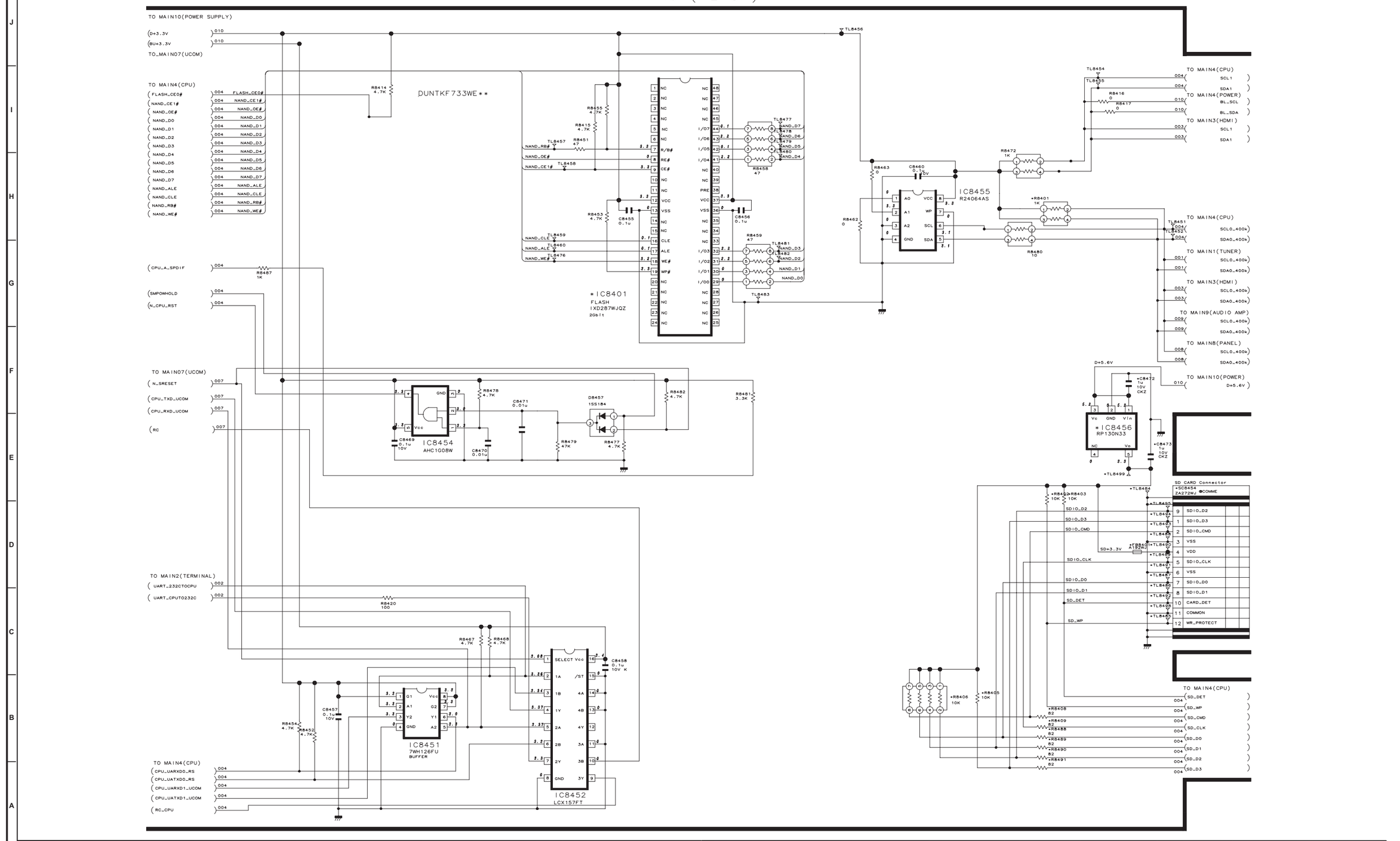
A-side DDR3X2

MAIN Unit-6 (LC-52/60LE830E, RU/833E)

MAIN6 (FLASH)

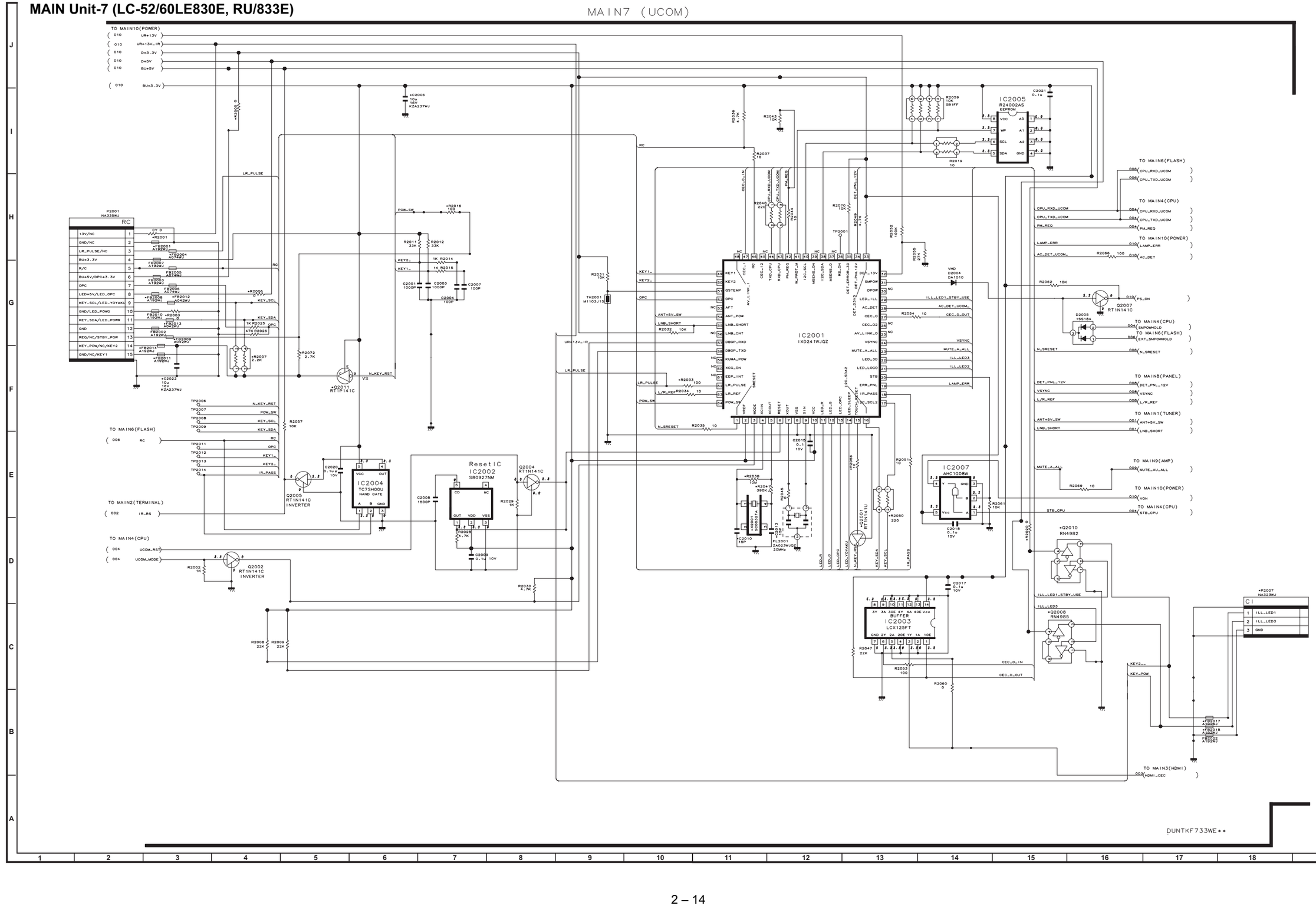


MAIN Unit-6 (LC-52/60LE831E, S)



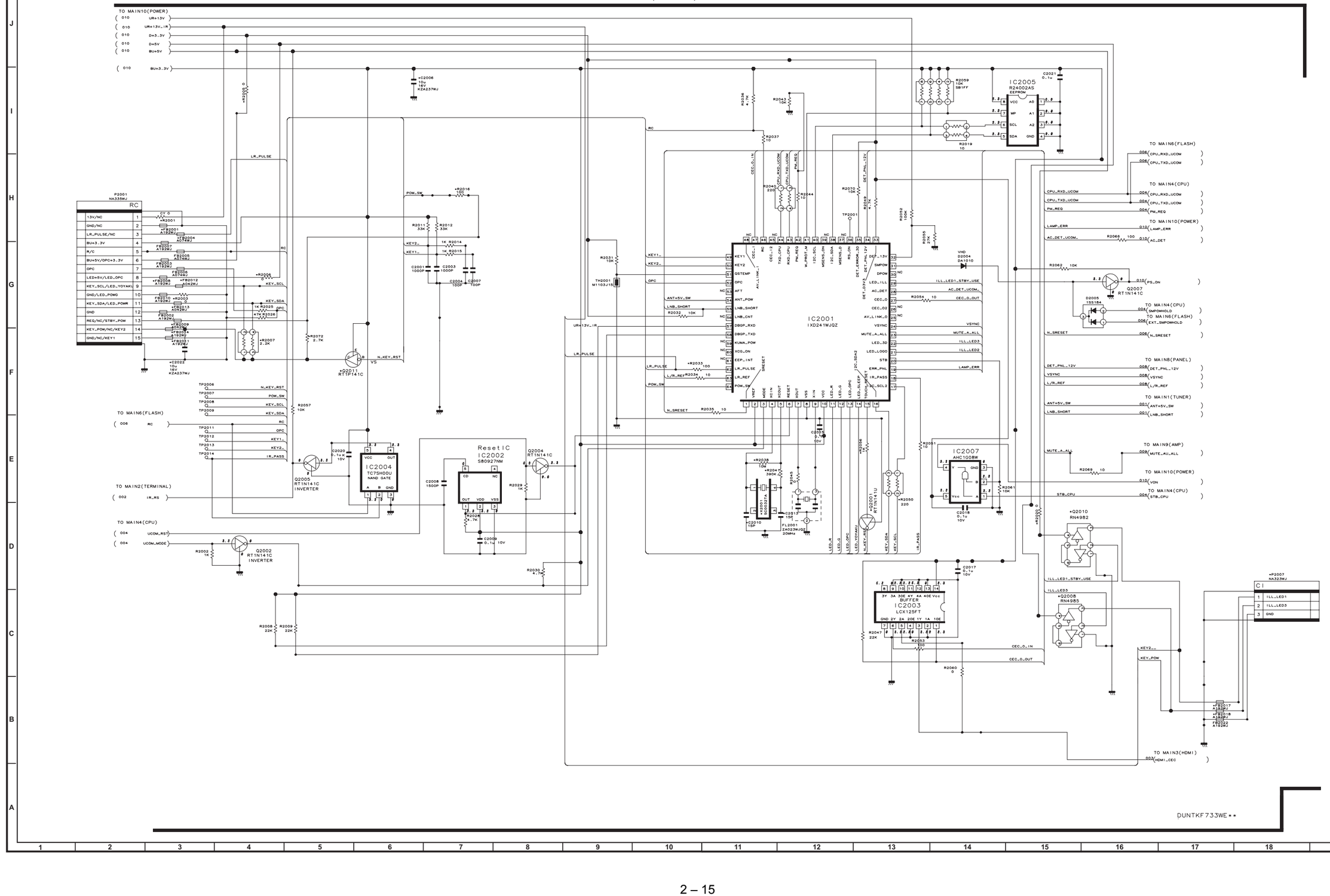
MAIN Unit-7 (LC-52/60LE830E, RU/833E)

MAIN7 (UCOM)



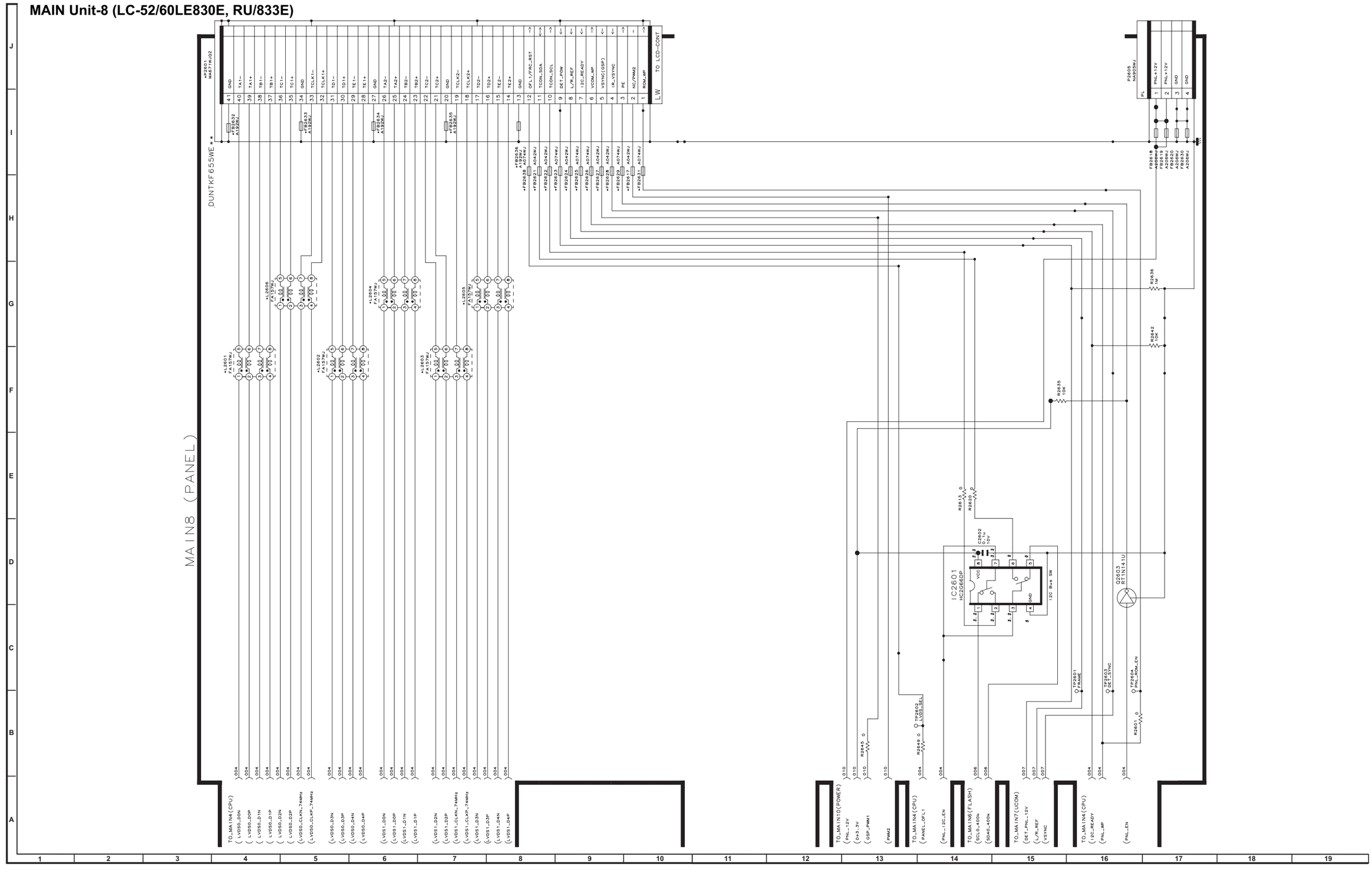
MAIN Unit-7 (LC-52/60LE831E, S)

MAIN7 (UCOM)

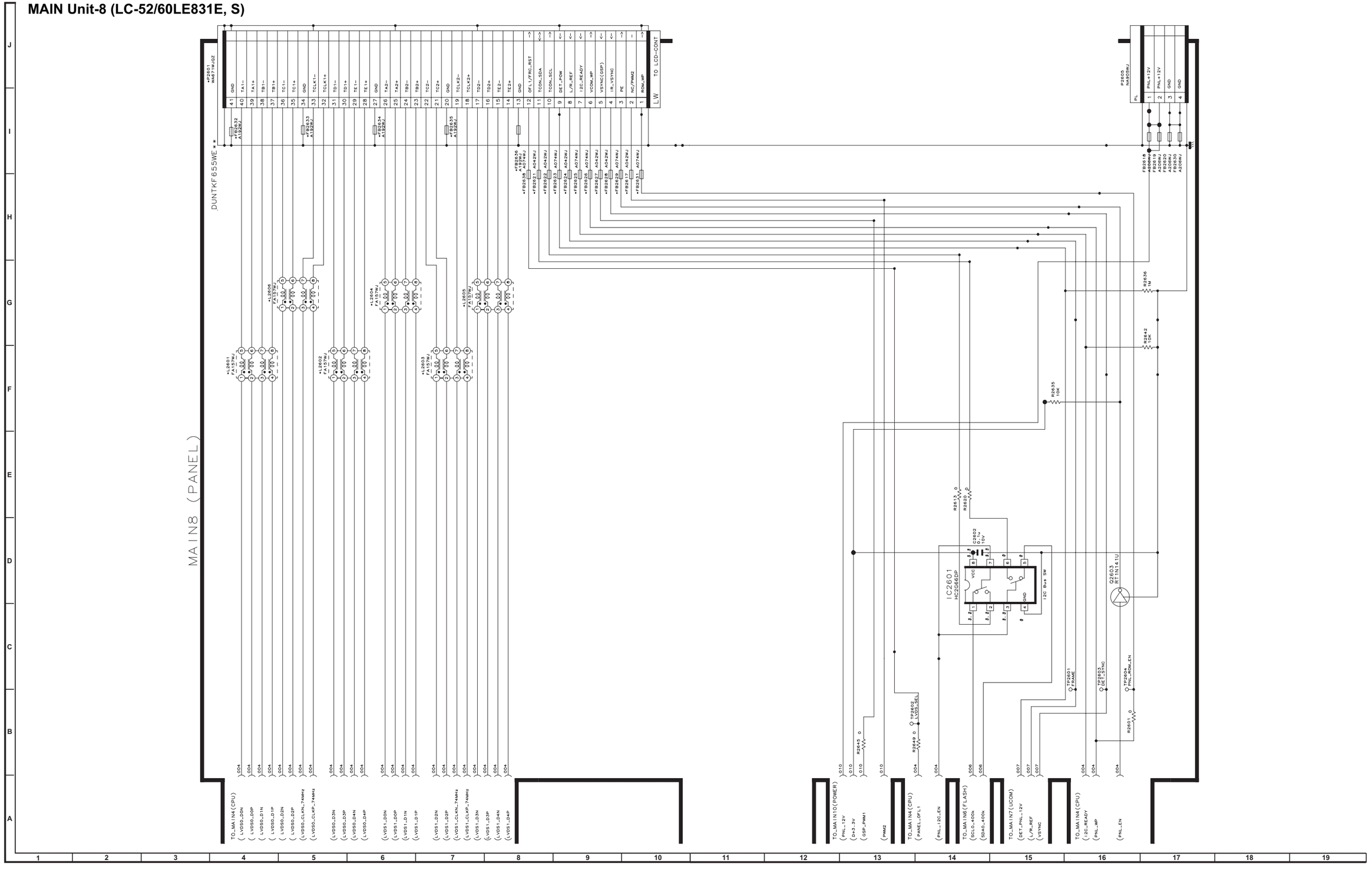


DUNTKF733WE**

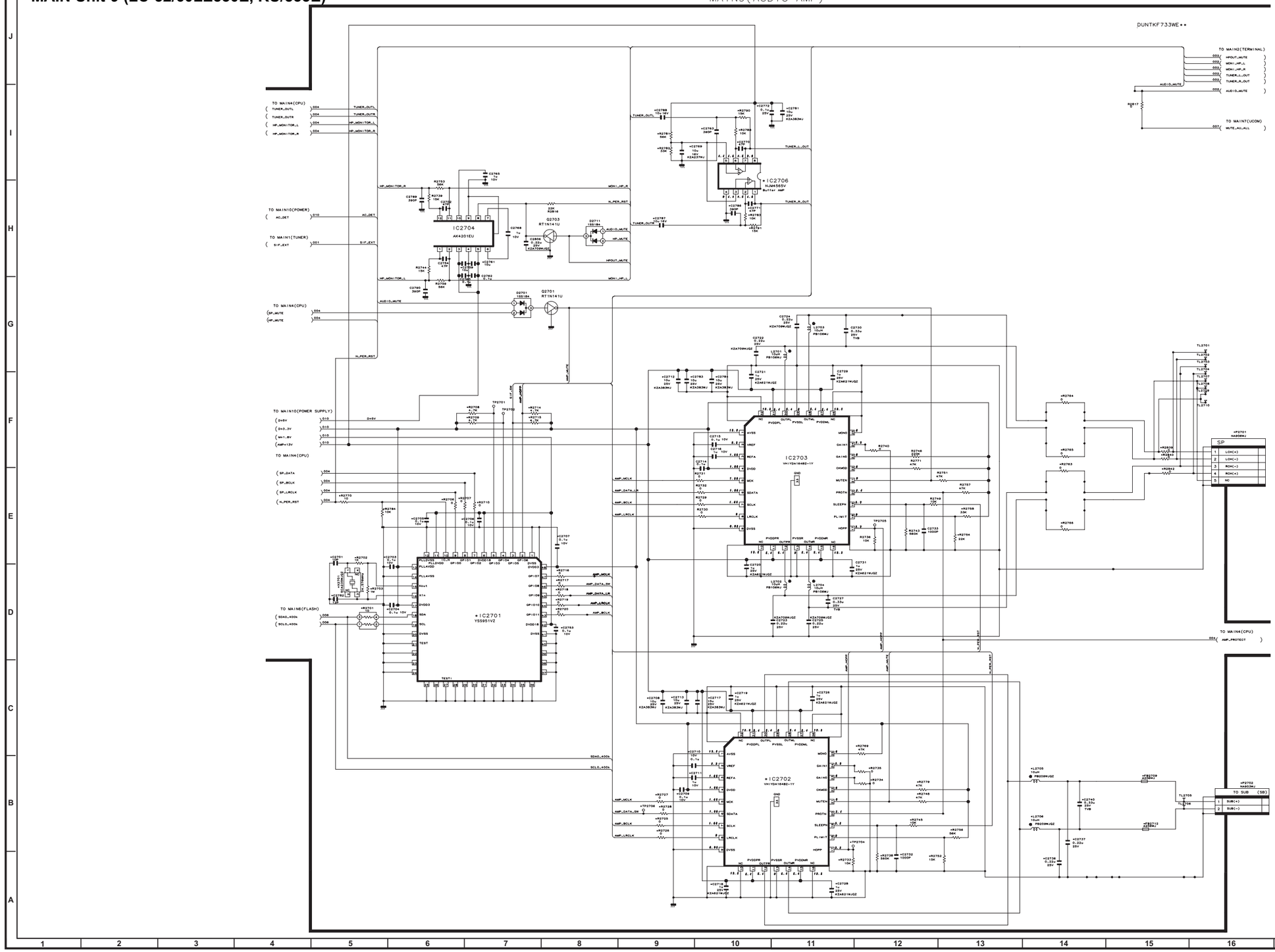
MAIN Unit-8 (LC-52/60LE830E, RU/833E)



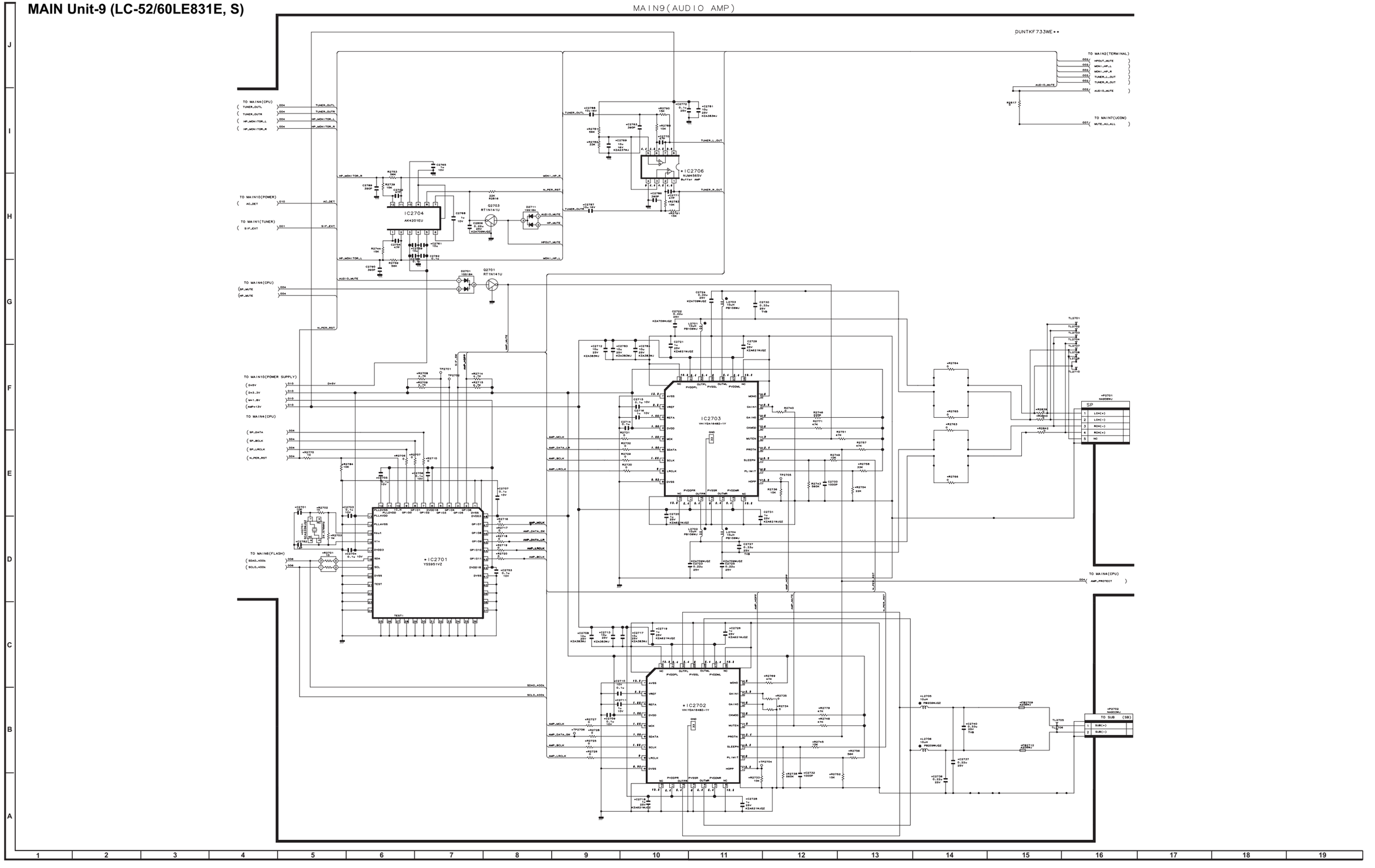
MAIN Unit-8 (LC-52/60LE831E, S)



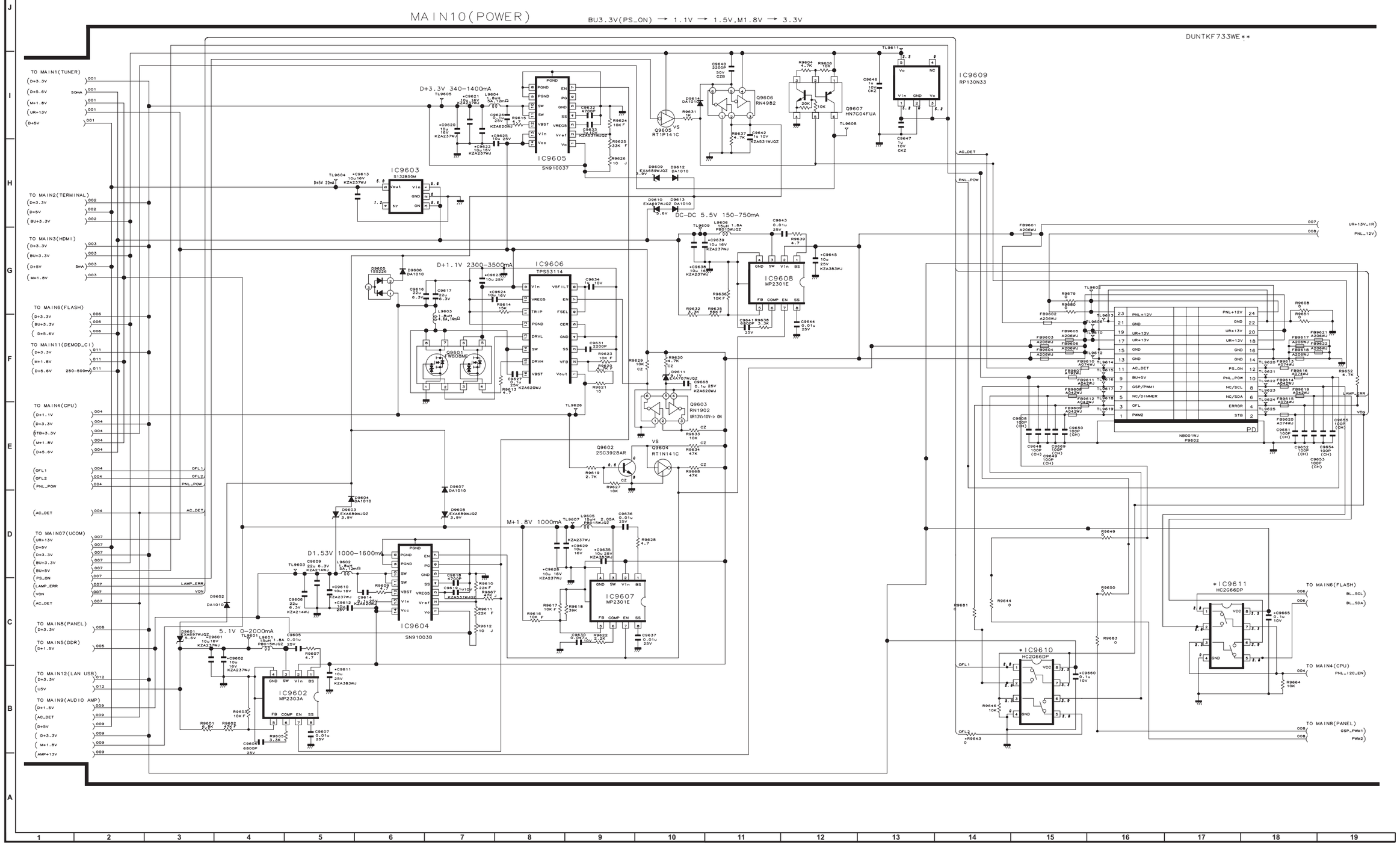
MAIN Unit-9 (LC-52/60LE830E, RU/833E)



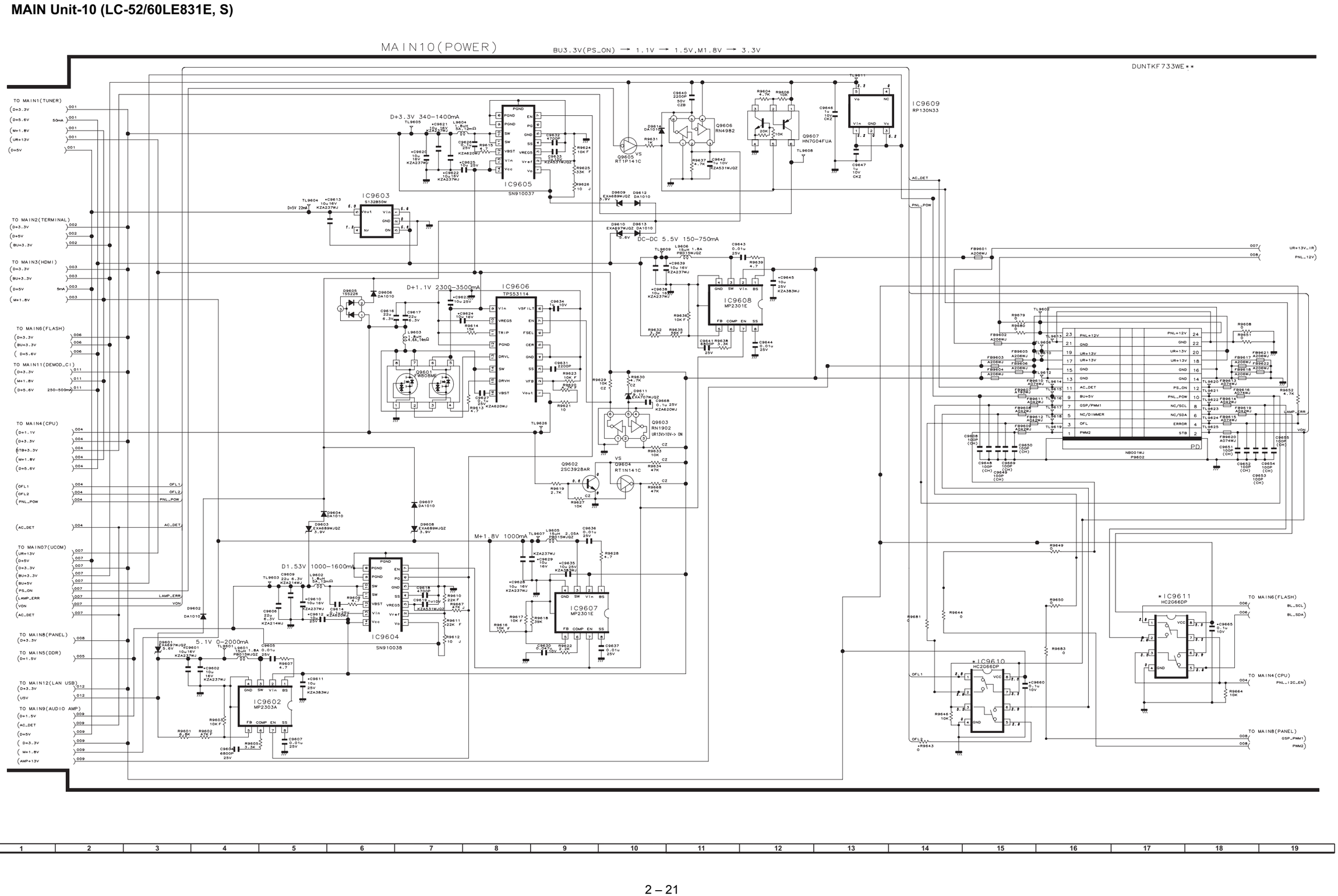
MAIN Unit-9 (LC-52/60LE831E, S)



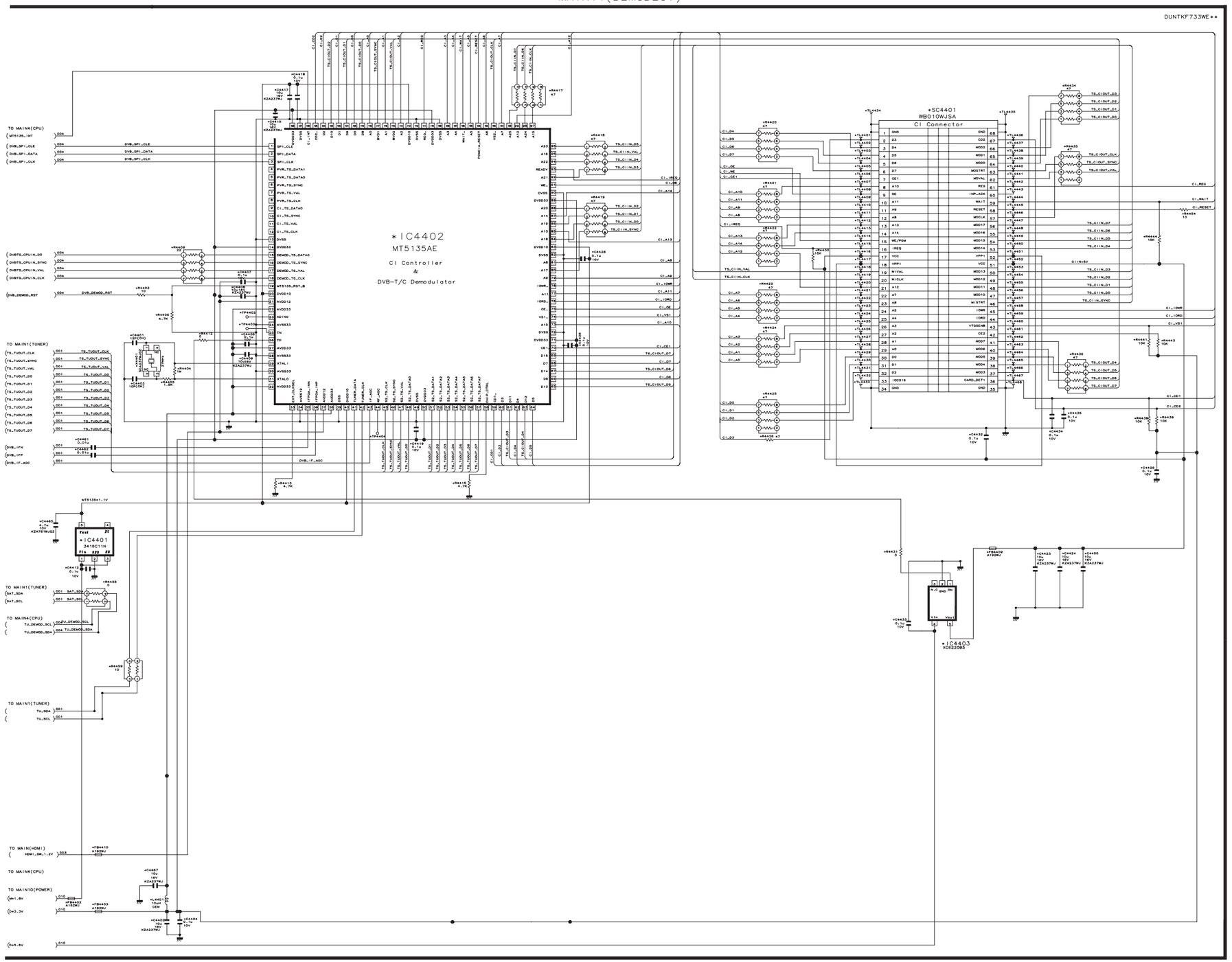
MAIN Unit-10 (LC-52/60LE830E, RU/833E)



MAIN Unit-10 (LC-52/60LE831E, S)



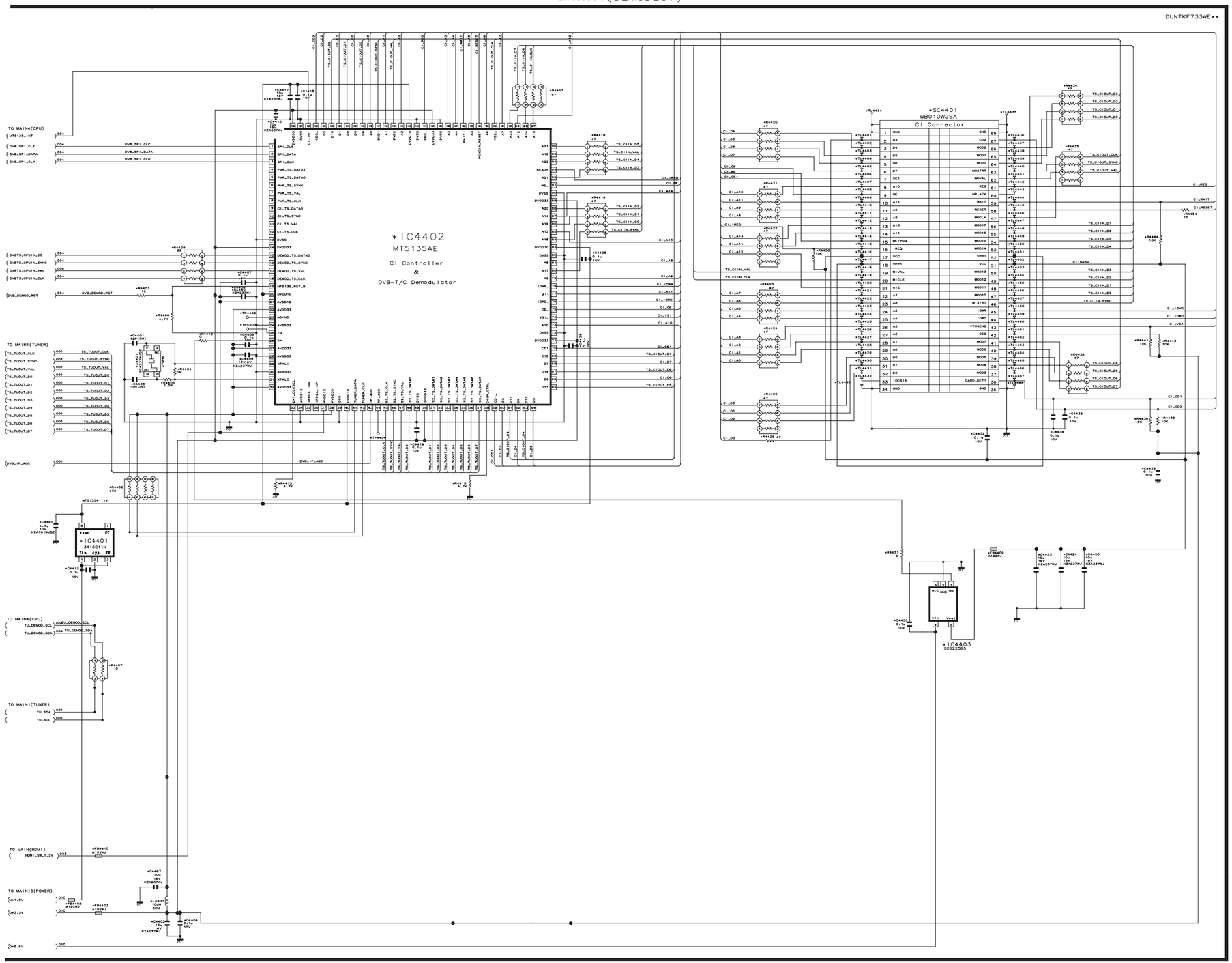
MAIN Unit-11 (LC-52/60LE830E, RU/833E)



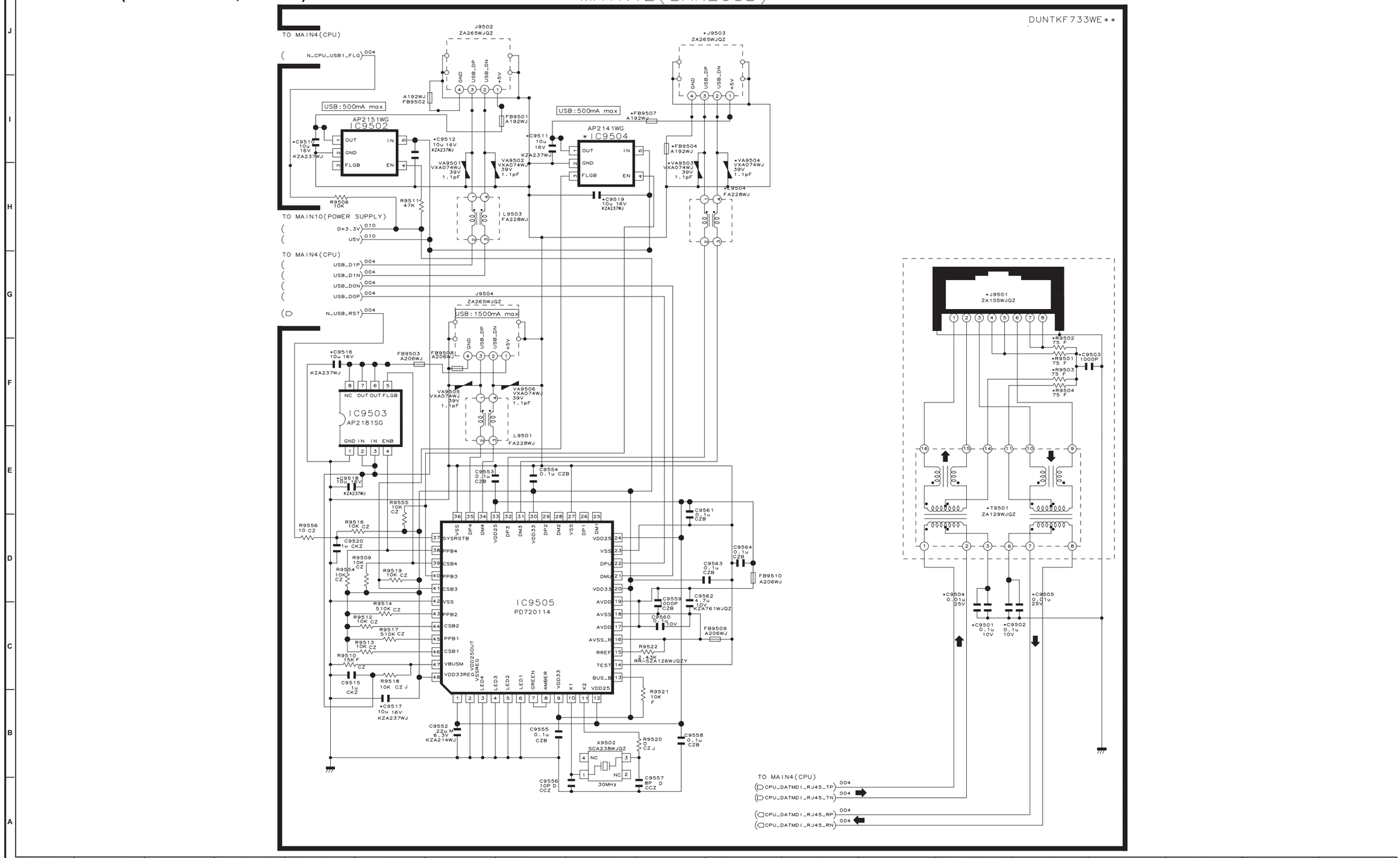
MAIN Unit-11 (LC-52/60LE831E, S)

MAIN11(DEMOD_CI)

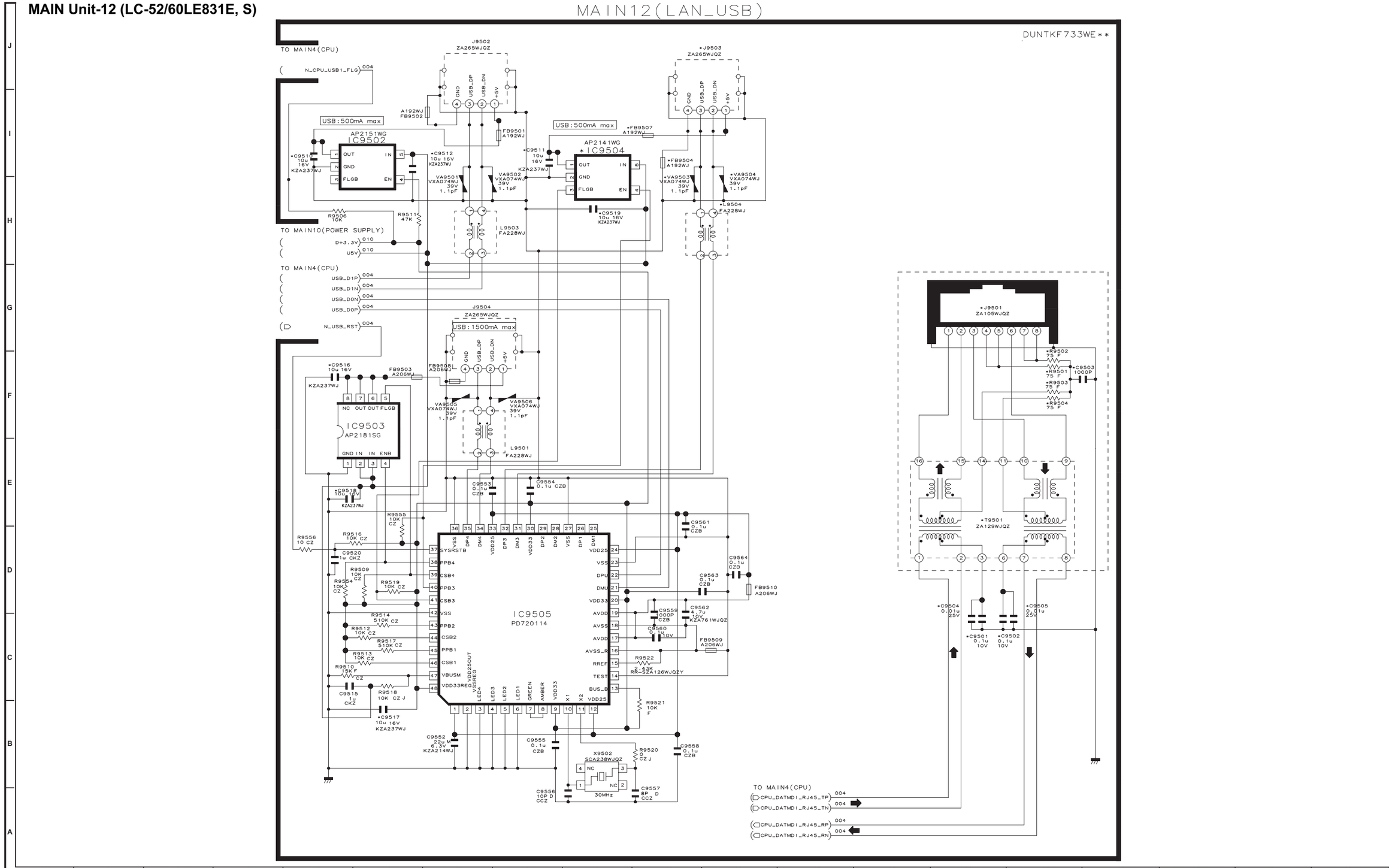
DUNTKF733WE**



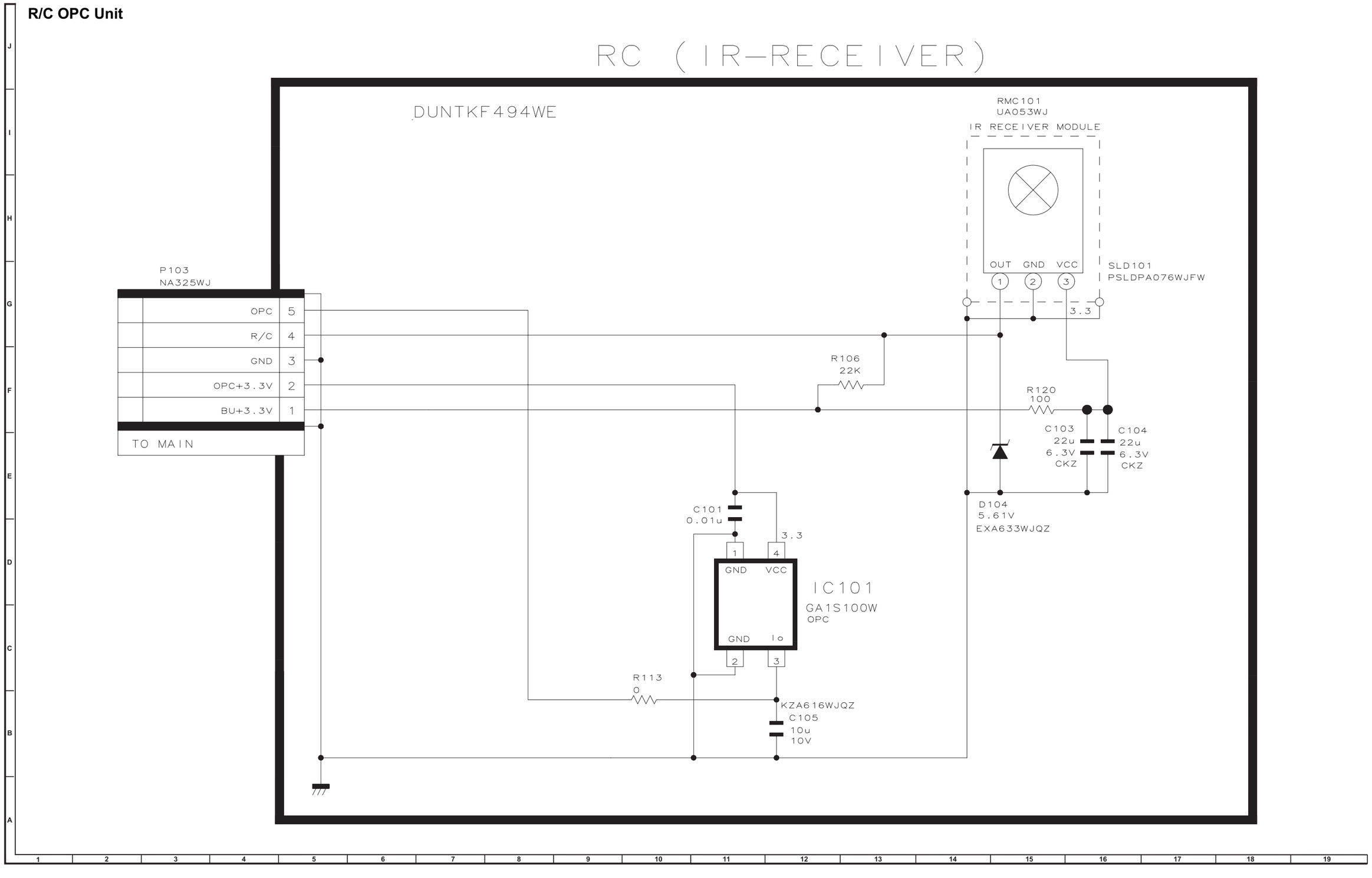
MAIN Unit-12 (LC-52/60LE830E, RU/833E)



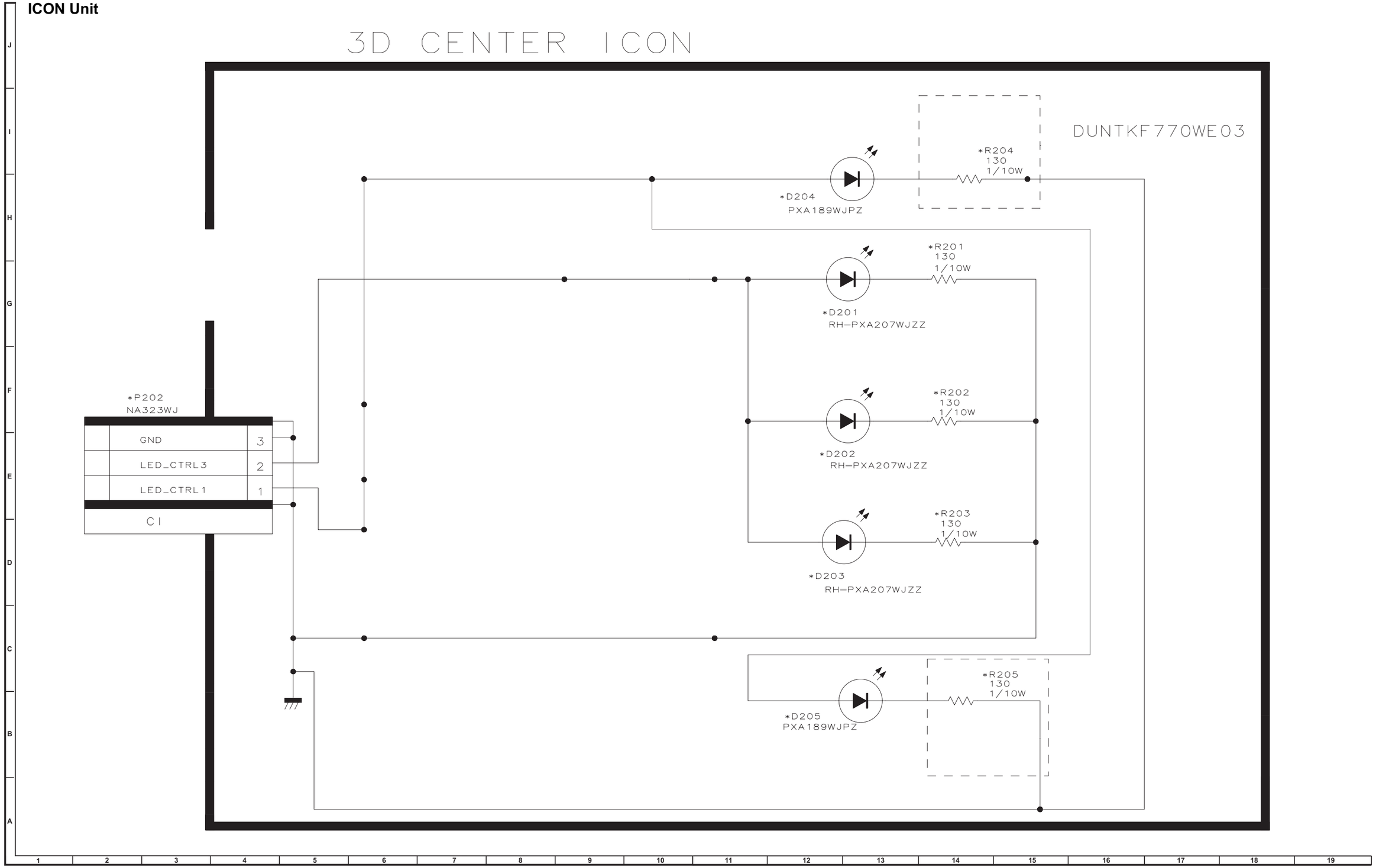
MAIN Unit-12 (LC-52/60LE831E, S)



R/C OPC Unit


RC (IR-RECEIVER)
DUNTKF494WE
P103
NA325WJ
OPC 5
R/C 4
GND 3
OPC+3.3V 2
BU+3.3V 1
TO MAIN
RMC101
UA053WJ
IR RECEIVER MODULE
OUT GND VCC
1 2 3
SLD101
PSLDPA076WJFW
3.3
R106
22K
R120
100
C103
22u
6.3V
CKZ
C104
22u
6.3V
CKZ
D104
5.61V
EXA633WJQZ
C101
0.01u
3.3
1 4
GND VCC
IC101
GA1S100W
OPC
GND Io
2 3
R113
0
KZA616WJQZ
C105
10u
10V

ICON Unit


3D CENTER ICON
DUNTKF770WE03
*P202
NA323WJ
GND
3
LED_CTRL3
2
LED_CTRL1
1
CI
*D204
PXA189WJPZ
*R204
130
1/10W
*D201
RH-PXA207WJZZ
*R201
130
1/10W
*D202
RH-PXA207WJZZ
*R202
130
1/10W
*D203
RH-PXA207WJZZ
*R203
130
1/10W
*D205
PXA189WJPZ
*R205
130
1/10W

— MEMO —

SHARP PARTS GUIDE

No. S81T452LE830E

LCD COLOUR TELEVISION

Note:
The reference numbers on the PWB are arranged in alphabetical order.

MODELS

LC-52/60LE830E/RU/E[B]/RU[B]
LC-52/60LE831E/S/E[B]/S[B]
LC-52/60LE833E/E[B]

CONTENTS

[1] PRINTED WIRING BOARD ASSEMBLIES

[2] DKEYDF733FM51/52/54 (MAIN Unit)

[3] DUNTKF494FM02 (R/C OPC Unit)

[4] DUNTKF770FM51 (ICON Unit)

Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

SHARP CORPORATION

This document has been published to be used for after sales service only.
The contents are subject to change without notice.

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[1] PRINTED WIRING BOARD ASSEMBLIES					
N	DKEYDF733FM51			P	MAIN Unit (LC-52/60LE830E/RU)
N	DKEYDF733FM52			P	MAIN Unit (LC-52/60LE832E/S)
N	DKEYDF733FM54			P	MAIN Unit (LC-52/60LE833E)
N	DUNTKF494FM02			P	R/C OPC Unit
N	DUNTKF770FM51			P	ICON Unit
[2] DKEYDF733FM51/52/54 (MAIN Unit)					
C501	VCKYCZ1HB221KY	AA		J	Capacitor 220p 50V Ceramic
C502	VCKYCZ1HB221KY	AA		J	Capacitor 220p 50V Ceramic
C503	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C504	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C506	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C507	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C508	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C510	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C511	VCKYCZ1HB221KY	AA		J	Capacitor 220p 50V Ceramic
C512	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C522	VCKYCZ1HB331KY	AA		J	Capacitor 330p 50V Ceramic
C523	VCKYCZ1HB331KY	AA		J	Capacitor 330p 50V Ceramic
C530	VCKYCZ1HB471KY	AB		J	Capacitor 470p 50V Ceramic
C531	VCKYCZ1HB471KY	AB		J	Capacitor 470p 50V Ceramic
C532	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C533	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C538	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C539	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C542	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C543	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C545	VCKYCZ1HB471KY	AB		J	Capacitor 470p 50V Ceramic
C548	VCCCCZ1HH100DY	AB		J	Capacitor 10p 50V Ceramic
C549	VCCCCZ1HH100DY	AB		J	Capacitor 10p 50V Ceramic
C550	VCCCCZ1HH100DY	AB		J	Capacitor 10p 50V Ceramic
C554	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C555	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C558	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C559	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C560	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C577	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C578	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C579	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C580	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C583	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C584	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C585	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C586	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C588	VCCCCZ1HH470JY	AB		J	Capacitor 47p 50V Ceramic
C591	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C603	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C607	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C608	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C609	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C610	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C611	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C612	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C613	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C614	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C615	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C1101	VCKYCZ1EB822KY	AA		J	Capacitor 8200p 25V Ceramic (LC-52/60LE830E, RU/833E)
C1102	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic (LC-52/60LE830E, RU/833E)
C1104	RC-KZA621WJQZY	AA		J	Capacitor 1 25V Ceramic (LC-52/60LE830E, RU/833E)
C1105	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C1106	VCCCCZ1HH330JY	AB		J	Capacitor 33p 50V Ceramic (LC-52/60LE830E, RU/833E)
C1107	VCEASH1EN686MY	AD		J	Capacitor 68 25V Electrolytic (LC-52/60LE830E, RU/833E)
C1108	VCCCCZ1HH330JY	AB		J	Capacitor 33p 50V Ceramic (LC-52/60LE830E, RU/833E)
C1110	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C1111	VCEASH1EN686MY	AD		J	Capacitor 68 25V Electrolytic (LC-52/60LE830E, RU/833E)
C1112	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic (LC-52/60LE830E, RU/833E)
C1113	RC-KZA709WJQZY	AA		J	Capacitor 0.22 25V Ceramic (LC-52/60LE830E, RU/833E)
C1114	RC-KZA621WJQZY	AA		J	Capacitor 1 25V Ceramic (LC-52/60LE830E, RU/833E)
C1115	RC-KZA383WJZZY	AC		J	Capacitor 10 25V Ceramic (LC-52/60LE830E, RU/833E)
C1116	RC-KZA709WJQZY	AA		J	Capacitor 0.22 25V Ceramic (LC-52/60LE830E, RU/833E)
C1117	RC-KZA709WJQZY	AA		J	Capacitor 0.22 25V Ceramic (LC-52/60LE830E, RU/833E)
C1118	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic (LC-52/60LE831E, S)
C1119	RC-KZA383WJZZY	AC		J	Capacitor 10 25V Ceramic (LC-52/60LE830E, RU/833E)
C1120	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic (LC-52/60LE830E, RU/833E)
C1123	VCKYCZ1AB473KY	AB		J	Capacitor 0.047 10V Ceramic (LC-52/60LE830E, RU/833E)
C1124	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1125	VCKYCZ1AB473KY	AB		J	Capacitor 0.047 10V Ceramic (LC-52/60LE830E, RU/833E)
C1127	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C1128	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C1129	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C1130	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic (LC-52/60LE830E, RU/833E)
C1133	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1138	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1141	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C1145	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[2] DKEYDF733FM51/52/54 (MAIN Unit)					
C1153	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C1161	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1173	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C1174	VCCCCZ1HH330JY	AB		J	Capacitor 33p 50V Ceramic (LC-52/60LE831E, S)
C1175	VCCCCZ1HH330JY	AB		J	Capacitor 33p 50V Ceramic (LC-52/60LE831E, S)
C1178	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic (LC-52/60LE830E, RU/833E)
C1179	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic (LC-52/60LE831E, S)
C1180	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic (LC-52/60LE831E, S)
C1181	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic (LC-52/60LE830E, RU/833E)
C1182	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic (LC-52/60LE830E, RU/833E)
C1183	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic (LC-52/60LE830E, RU/833E)
C1184	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic (LC-52/60LE830E, RU/833E)
C1185	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C1188	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic (LC-52/60LE830E, RU/833E)
C1189	VCKYCY1EB104KY	AB		J	Capacitor 0.1 25V Ceramic (LC-52/60LE830E, RU/833E)
C1190	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic (LC-52/60LE830E, RU/833E)
C1191	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic (LC-52/60LE831E, S)
C1192	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic (LC-52/60LE831E, S)
C1193	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic (LC-52/60LE831E, S)
C1195	RC-KZA761WJQZY	AB	N	J	Capacitor 4.7 10V Ceramic
C1196	RC-KZA761WJQZY	AB	N	J	Capacitor 4.7 10V Ceramic
C1200	VCCCCZ1HH330JY	AB		J	Capacitor 33p 50V Ceramic
C1201	VCCCCZ1HH330JY	AB		J	Capacitor 33p 50V Ceramic
C1505	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1510	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C1511	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1512	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C1513	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1514	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C1515	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1516	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1517	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C1518	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C1519	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C1520	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C1521	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C1522	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C1523	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C1526	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1531	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C1533	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C1538	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C1539	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1540	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C1541	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1542	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C1543	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C1544	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1545	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1546	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C1547	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1548	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1549	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C1550	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1551	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C1552	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C1553	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1554	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1555	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C1556	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C1557	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1558	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C1561	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C1562	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C1563	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C1564	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C1565	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C1566	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C2001	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C2003	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C2004	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C2006	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C2007	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C2008	VCKYCZ1HB152KY	AB		J	Capacitor 1500p 50V Ceramic
C2009	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2010	VCCCCZ1HH150JY	AB		J	Capacitor 15p 50V Ceramic
C2013	VCCCCZ1HH150JY	AB		J	Capacitor 15p 50V Ceramic
C2015	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2017	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2018	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2020	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2021	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2022	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C2602	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2701	VCCCCZ1HH100DY	AB		J	Capacitor 10p 50V Ceramic

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[2] DKEYDF733FM51/52/54 (MAIN Unit)					
C2702	VCCCCZ1HH470JY	AB		J	Capacitor 47p 50V Ceramic
C2703	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2704	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2705	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2706	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2707	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2708	RC-KZA383WJZZY	AC		J	Capacitor 10 25V Ceramic
C2709	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2710	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2711	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C2712	RC-KZA383WJZZY	AC		J	Capacitor 10 25V Ceramic
C2713	RC-KZA383WJZZY	AC		J	Capacitor 10 25V Ceramic
C2714	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2715	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2716	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C2717	RC-KZA383WJZZY	AC		J	Capacitor 10 25V Ceramic
C2718	RC-KZA621WJQZY	AA		J	Capacitor 1 25V Ceramic
C2719	RC-KZA621WJQZY	AA		J	Capacitor 1 25V Ceramic
C2720	RC-KZA621WJQZY	AA		J	Capacitor 1 25V Ceramic
C2721	RC-KZA621WJQZY	AA		J	Capacitor 1 25V Ceramic
C2722	RC-KZA709WJQZY	AA		J	Capacitor 0.22 25V Ceramic
C2723	RC-KZA709WJQZY	AA		J	Capacitor 0.22 25V Ceramic
C2724	RC-KZA709WJQZY	AA		J	Capacitor 0.22 25V Ceramic
C2725	RC-KZA709WJQZY	AA		J	Capacitor 0.22 25V Ceramic
C2726	RC-KZA621WJQZY	AA		J	Capacitor 1 25V Ceramic
C2727	VCKYTV1EB334KY	AB		J	Capacitor 0.33 25V Ceramic
C2728	RC-KZA621WJQZY	AA		J	Capacitor 1 25V Ceramic
C2729	RC-KZA621WJQZY	AA		J	Capacitor 1 25V Ceramic
C2730	VCKYTV1EB334KY	AB		J	Capacitor 0.33 25V Ceramic
C2731	RC-KZA621WJQZY	AA		J	Capacitor 1 25V Ceramic
C2732	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C2733	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C2736	RC-KZA709WJQZY	AA		J	Capacitor 0.22 25V Ceramic
C2737	RC-KZA709WJQZY	AA		J	Capacitor 0.22 25V Ceramic
C2740	VCKYTV1EB334KY	AB		J	Capacitor 0.33 25V Ceramic
C2753	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2754	VCCCCZ1HH470JY	AB		J	Capacitor 47p 50V Ceramic
C2759	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C2760	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2761	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C2762	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2763	VCCCCZ1HH391JY	AA		J	Capacitor 390p 50V Ceramic
C2765	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C2768	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C2769	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C2770	VCCCCZ1HH470JY	AB		J	Capacitor 47p 50V Ceramic
C2771	VCCCCZ1HH470JY	AB		J	Capacitor 47p 50V Ceramic
C2772	RC-KZA620WJZZY	AA		J	Capacitor 0.1 25V Ceramic
C2781	RC-KZA383WJZZY	AC		J	Capacitor 10 25V Ceramic
C2782	VCCCCZ1HH120JY	AB		J	Capacitor 12p 50V Ceramic
C2783	RC-KZA383WJZZY	AC		J	Capacitor 10 25V Ceramic
C2784	RC-KZA383WJZZY	AC		J	Capacitor 10 25V Ceramic
C2786	VCCCCZ1HH391JY	AA		J	Capacitor 390p 50V Ceramic
C2787	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C2788	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C2789	VCCCCZ1HH391JY	AA		J	Capacitor 390p 50V Ceramic
C2790	VCCCCZ1HH391JY	AA		J	Capacitor 390p 50V Ceramic
C2806	RC-KZA709WJQZY	AA		J	Capacitor 0.22 25V Ceramic
C3301	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3302	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C3303	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3304	RC-KZA761WJQZY	AB	N	J	Capacitor 4.7 10V Ceramic
C3305	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C3306	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3307	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3308	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3309	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3310	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3312	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3313	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3314	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C3315	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3316	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3318	RC-KZA761WJQZY	AB	N	J	Capacitor 4.7 10V Ceramic
C3319	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3320	RC-KZA761WJQZY	AB	N	J	Capacitor 4.7 10V Ceramic
C3321	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3322	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C3323	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3324	VCKYCJ1CB104MY	AC	N	J	Capacitor 0.1 16V Ceramic
C3325	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3326	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3328	VCKYCJ1CB104MY	AC	N	J	Capacitor 0.1 16V Ceramic
C3329	VCKYCJ1CB104MY	AC	N	J	Capacitor 0.1 16V Ceramic
C3330	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[2] DKEYDF733FM51/52/54 (MAIN Unit)					
C3331	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3332	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3333	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3334	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3335	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3336	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3337	RC-KZA761WJQZY	AB	N	J	Capacitor 4.7 10V Ceramic
C3338	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C3339	RC-KZA761WJQZY	AB	N	J	Capacitor 4.7 10V Ceramic
C3340	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3341	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3342	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3343	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3344	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3345	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3346	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3347	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C3348	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3349	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C3350	VCCCCZ1HH7R0DY	AB		J	Capacitor 7p 50V Ceramic
C3351	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C3352	VCCCCZ1HH7R0DY	AB		J	Capacitor 7p 50V Ceramic
C3353	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3354	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C3355	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3356	VCKYCZ1HB152KY	AB		J	Capacitor 1500p 50V Ceramic
C3357	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3358	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3359	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C3360	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3361	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3362	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C3363	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3364	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3365	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3366	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3367	VCKYCZ1HB152KY	AB		J	Capacitor 1500p 50V Ceramic
C3368	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3369	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3370	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3371	VCKYCZ1AB473KY	AB		J	Capacitor 0.047 10V Ceramic
C3372	VCKYCZ1AB473KY	AB		J	Capacitor 0.047 10V Ceramic
C3373	VCKYCZ1AB473KY	AB		J	Capacitor 0.047 10V Ceramic
C3374	VCKYCZ1AB473KY	AB		J	Capacitor 0.047 10V Ceramic
C3375	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3376	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C3377	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C3378	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C3379	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C3380	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C3381	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C3382	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C3383	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C3384	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C3385	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C3386	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3387	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3388	VCKYCZ1AB473KY	AB		J	Capacitor 0.047 10V Ceramic
C3389	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C3393	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3394	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3395	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3396	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3399	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C3400	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3501	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3502	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3503	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C3504	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3505	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3506	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C3507	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3508	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3509	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3510	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3511	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3512	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C3513	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3514	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3515	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3516	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C3517	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3518	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3532	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C3533	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[2] DKEYDF733FM51/52/54 (MAIN Unit)					
C3534	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C4401	VCCCCZ1HH120JY	AB		J	Capacitor 12p 50V Ceramic
C4402	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C4403	VCCCCZ1HH100DY	AB		J	Capacitor 10p 50V Ceramic
C4404	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C4406	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C4407	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C4408	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C4409	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C4412	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C4415	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C4417	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C4418	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C4419	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C4423	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C4424	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C4426	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C4428	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C4429	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C4432	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C4433	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C4434	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C4435	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C4450	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C4461	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic (LC-52/60LE830E, RU/833E)
C4462	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic (LC-52/60LE830E, RU/833E)
C4465	RC-KZA761WJQZY	AB	N	J	Capacitor 4.7 10V Ceramic
C4467	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C8455	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C8456	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C8457	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C8458	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C8460	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C8469	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C8470	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C8471	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C8472	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C8473	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C9501	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C9502	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C9503	RC-KZA523WJQZY	AD		J	Capacitor 1000p Ceramic
C9504	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C9505	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C9510	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C9511	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C9512	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C9515	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C9516	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C9517	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C9518	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C9519	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C9520	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C9552	RC-KZA214WJZZY	AD		J	Capacitor 22 6.3V Ceramic
C9553	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C9554	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C9555	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C9556	VCCCCZ1HH100DY	AB		J	Capacitor 10p 50V Ceramic
C9557	VCCCCZ1HH8R0DY	AA		J	Capacitor 8p 50V Ceramic
C9558	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C9559	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C9560	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C9561	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C9562	RC-KZA761WJQZY	AB	N	J	Capacitor 4.7 10V Ceramic
C9563	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C9564	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C9601	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C9602	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C9604	VCKYCZ1EB682KY	AB		J	Capacitor 6800p 25V Ceramic
C9605	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C9606	RC-KZA214WJZZY	AD		J	Capacitor 22 6.3V Ceramic
C9607	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C9608	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C9609	RC-KZA214WJZZY	AD		J	Capacitor 22 6.3V Ceramic
C9610	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C9611	RC-KZA383WJZZY	AC		J	Capacitor 10 25V Ceramic
C9612	RC-KZA383WJZZY	AC		J	Capacitor 10 25V Ceramic
C9613	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C9614	RC-KZA620WJZZY	AA		J	Capacitor 0.1 25V Ceramic
C9616	RC-KZA214WJZZY	AD		J	Capacitor 22 6.3V Ceramic
C9617	RC-KZA214WJZZY	AD		J	Capacitor 22 6.3V Ceramic
C9618	VCKYCZ1HB472KY	AA		J	Capacitor 4700p 50V Ceramic
C9619	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C9620	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C9621	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C9622	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[2] DKEYDF733FM51/52/54 (MAIN Unit)					
C9623	RC-KZA383WJZZY	AC		J	Capacitor 10 25V Ceramic
C9624	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C9625	RC-KZA383WJZZY	AC		J	Capacitor 10 25V Ceramic
C9626	RC-KZA620WJZZY	AA		J	Capacitor 0.1 25V Ceramic
C9627	RC-KZA620WJZZY	AA		J	Capacitor 0.1 25V Ceramic
C9628	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C9629	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C9630	VCKYCZ1AB473KY	AB		J	Capacitor 0.047 10V Ceramic
C9631	VCKYCZ1HB222KY	AB		J	Capacitor 2200p 50V Ceramic
C9632	VCKYCZ1HB472KY	AA		J	Capacitor 4700p 50V Ceramic
C9633	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C9634	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C9635	RC-KZA383WJZZY	AC		J	Capacitor 10 25V Ceramic
C9636	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C9637	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C9638	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C9639	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C9640	VCKYCZ1HB222KY	AB		J	Capacitor 2200p 50V Ceramic
C9641	VCKYCZ1EB682KY	AB		J	Capacitor 6800p 25V Ceramic
C9642	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C9643	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C9644	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C9645	RC-KZA383WJZZY	AC		J	Capacitor 10 25V Ceramic
C9646	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C9647	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C9648	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C9649	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C9650	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C9651	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C9652	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C9653	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C9654	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C9655	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C9660	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C9665	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C9668	RC-KZA620WJZZY	AA		J	Capacitor 0.1 25V Ceramic
C9669	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
D503	RH-EXA689WJQZY	AB	N	J	Zener Diode DZ2J03900L
D504	RH-EXA689WJQZY	AB	N	J	Zener Diode DZ2J03900L
D507	RH-EXA697WJQZY	AB	N	J	Zener Diode DZ2J05600L
D508	RH-EXA697WJQZY	AB	N	J	Zener Diode DZ2J05600L
D509	RH-EXA697WJQZY	AB	N	J	Zener Diode DZ2J05600L
D510	RH-EXA697WJQZY	AB	N	J	Zener Diode DZ2J05600L
D512	VHD1SS184++-1Y	AB		J	Diode 1SS184(TE85L,F)
D515	RH-EXA697WJQZY	AB	N	J	Zener Diode DZ2J05600L
D518	RH-EXA705WJQZY	AB	N	J	Zener Diode DZ2J08200L
D519	RH-EXA705WJQZY	AB	N	J	Zener Diode DZ2J08200L
D525	RH-EXA697WJQZY	AB	N	J	Zener Diode DZ2J05600L
D527	VHPRFT4112S-1Y	AF	N	J	Photodiode RFT4112S
D1101	VHDRB156L40-1Y	AC		J	Diode RB156L-40TE25 (LC-52/60LE830E, RU/833E)
D1102	VHD1SR154++-1Y	AC		J	Diode 1SR154-400TE25 (LC-52/60LE830E, RU/833E)
D1103	VHDRB156L40-1Y	AC		J	Diode RB156L-40TE25 (LC-52/60LE830E, RU/833E)
D1104	VHDRB156L40-1Y	AC		J	Diode RB156L-40TE25 (LC-52/60LE830E, RU/833E)
D1105	VHDRB156L40-1Y	AC		J	Diode RB156L-40TE25 (LC-52/60LE830E, RU/833E)
D1501	RH-EXA705WJQZY	AB	N	J	Zener Diode DZ2J08200L
D1508	VHD1SS184++-1Y	AB		J	Diode 1SS184(TE85L,F)
D1509	VHD1SS184++-1Y	AB		J	Diode 1SS184(TE85L,F)
D1511	VHD1SS184++-1Y	AB		J	Diode 1SS184(TE85L,F)
D1512	VHD1SS420++-1Y	AC		J	Diode 1SS420(TPL3,F)1SS420(TL3,F,T)
D1517	VHD1SS184++-1Y	AB		J	Diode 1SS184(TE85L,F)
D2004	VHDDA1010++-1Y	AA		J	Diode DA2J10100L
D2005	VHD1SS184++-1Y	AB		J	Diode 1SS184(TE85L,F)
D2701	VHD1SS184++-1Y	AB		J	Diode 1SS184(TE85L,F)
D2711	VHD1SS184++-1Y	AB		J	Diode 1SS184(TE85L,F)
D3303	RH-PXA018WJZZY	AC		J	LED GM1HD55200A
D3304	VHD1SS226//-1Y	AC		J	Diode 1SS226(T5L,F,T)
D3305	RH-EXA697WJQZY	AB	N	J	Zener Diode DZ2J05600L
D3306	RH-EXA697WJQZY	AB	N	J	Zener Diode DZ2J05600L
D3307	VHD1SS226//-1Y	AC		J	Diode 1SS226(T5L,F,T)
D3308	RH-EXA713WJQZY	AB	N	J	Zener Diode DZ2J12000L
D3309	RH-EXA713WJQZY	AB	N	J	Zener Diode DZ2J12000L
D3310	RH-EXA713WJQZY	AB	N	J	Zener Diode DZ2J12000L
D3311	RH-EXA713WJQZY	AB	N	J	Zener Diode DZ2J12000L
D3312	RH-EXA713WJQZY	AB	N	J	Zener Diode DZ2J12000L
D3313	RH-EXA713WJQZY	AB	N	J	Zener Diode DZ2J12000L
D3314	RH-EXA713WJQZY	AB	N	J	Zener Diode DZ2J12000L
D3315	RH-EXA713WJQZY	AB	N	J	Zener Diode DZ2J12000L
D3316	RH-EXA713WJQZY	AB	N	J	Zener Diode DZ2J12000L
D3317	RH-EXA713WJQZY	AB	N	J	Zener Diode DZ2J12000L
D3318	VHD1SS226//-1Y	AC		J	Diode 1SS226(T5L,F,T)
D3319	VHD1SS226//-1Y	AC		J	Diode 1SS226(T5L,F,T)
D3320	VHD1SS226//-1Y	AC		J	Diode 1SS226(T5L,F,T)
D3321	VHD1SS226//-1Y	AC		J	Diode 1SS226(T5L,F,T)
D3322	VHD1SS226//-1Y	AC		J	Diode 1SS226(T5L,F,T)
D3323	VHD1SS226//-1Y	AC		J	Diode 1SS226(T5L,F,T)

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[2] DKEYDF733FM51/52/54 (MAIN Unit)					
D3324	VHD1SS226//-1Y	AC		J	Diode 1SS226(T5L,F,T)
D3325	VHD1SS226//-1Y	AC		J	Diode 1SS226(T5L,F,T)
D3326	VHD1SS226//-1Y	AC		J	Diode 1SS226(T5L,F,T)
D3327	VHD1SS226//-1Y	AC		J	Diode 1SS226(T5L,F,T)
D3328	VHD1SS226//-1Y	AC		J	Diode 1SS226(T5L,F,T)
D3329	VHD1SS226//-1Y	AC		J	Diode 1SS226(T5L,F,T)
D3330	RH-EXA697WJQZY	AB	N	J	Zener Diode DZ2J05600L
D8457	VHD1SS184++-1Y	AB		J	Diode 1SS184(TE85L,F)
D9601	RH-EXA697WJQZY	AB	N	J	Zener Diode DZ2J05600L
D9602	VHDDA1010++-1Y	AA		J	Diode DA2J10100L
D9603	RH-EXA689WJQZY	AB	N	J	Zener Diode DZ2J03900L
D9604	VHDDA1010++-1Y	AA		J	Diode DA2J10100L
D9605	VHD1SS226//-1Y	AC		J	Diode 1SS226(T5L,F,T)
D9606	VHDDA1010++-1Y	AA		J	Diode DA2J10100L
D9607	VHDDA1010++-1Y	AA		J	Diode DA2J10100L
D9608	RH-EXA689WJQZY	AB	N	J	Zener Diode DZ2J03900L
D9609	RH-EXA689WJQZY	AB	N	J	Zener Diode DZ2J03900L
D9610	RH-EXA697WJQZY	AB	N	J	Zener Diode DZ2J05600L
D9611	RH-EXA707WJQZY	AB	N	J	Zener Diode DZ2J09100L
D9612	VHDDA1010++-1Y	AA		J	Diode DA2J10100L
D9613	VHDDA1010++-1Y	AA		J	Diode DA2J10100L
D9614	VHDDA1010++-1Y	AA		J	Diode DA2J10100L
FB501	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB502	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB503	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB504	RBLN-A042WJZZY	AB		J	Ferrite Bead
FB505	RBLN-A042WJZZY	AB		J	Ferrite Bead
FB506	RBLN-A042WJZZY	AB		J	Ferrite Bead
FB507	RBLN-A042WJZZY	AB		J	Ferrite Bead
FB508	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB509	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB510	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB511	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB512	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB515	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB516	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB517	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB518	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB520	RBLN-A204WJZZY	AA		J	Ferrite Bead
FB521	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB522	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB523	RBLN-A042WJZZY	AB		J	Ferrite Bead
FB525	RBLN-A042WJZZY	AB		J	Ferrite Bead
FB527	RBLN-A042WJZZY	AB		J	Ferrite Bead
FB528	RBLN-A204WJZZY	AA		J	Ferrite Bead
FB529	RBLN-A204WJZZY	AA		J	Ferrite Bead
FB530	RBLN-A204WJZZY	AA		J	Ferrite Bead
FB533	RBLN-A527WJZZY	AB	N	J	Ferrite Bead
FB534	RBLN-A527WJZZY	AB	N	J	Ferrite Bead
FB535	RBLN-A527WJZZY	AB	N	J	Ferrite Bead
FB537	RBLN-A204WJZZY	AA		J	Ferrite Bead
FB538	RBLN-A204WJZZY	AA		J	Ferrite Bead
FB539	RBLN-A204WJZZY	AA		J	Ferrite Bead
FB540	RBLN-A204WJZZY	AA		J	Ferrite Bead
FB541	RBLN-A204WJZZY	AA		J	Ferrite Bead
FB548	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB1101	RBLN-A192WJZZY	AA		J	Ferrite Bead (LC-52/60LE830E, RU/833E)
FB1103	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB1104	RBLN-A192WJZZY	AA		J	Ferrite Bead (LC-52/60LE830E, RU/833E)
FB1505	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB1512	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB1515	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB1538	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB2001	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB2002	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB2003	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB2004	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB2005	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB2006	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB2007	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB2008	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB2009	RBLN-A042WJZZY	AB		J	Ferrite Bead
FB2010	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB2011	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB2012	RBLN-A042WJZZY	AB		J	Ferrite Bead
FB2013	RBLN-A042WJZZY	AB		J	Ferrite Bead
FB2014	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB2017	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB2018	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB2022	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB2617	RBLN-A042WJZZY	AB		J	Ferrite Bead
FB2618	RBLN-A206WJZZY	AA		J	Ferrite Bead
FB2619	RBLN-A206WJZZY	AA		J	Ferrite Bead
FB2620	RBLN-A206WJZZY	AA		J	Ferrite Bead
FB2621	RBLN-A042WJZZY	AB		J	Ferrite Bead

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[2] DKEYDF733FM51/52/54 (MAIN Unit)					
FB2622	RBLN-A042WJZZY	AB		J	Ferrite Bead
FB2623	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB2624	RBLN-A042WJZZY	AB		J	Ferrite Bead
FB2625	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB2626	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB2627	RBLN-A042WJZZY	AB		J	Ferrite Bead
FB2628	RBLN-A042WJZZY	AB		J	Ferrite Bead
FB2629	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB2630	RBLN-A206WJZZY	AA		J	Ferrite Bead
FB2631	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB2632	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB2633	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB2634	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB2635	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB2636	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB2638	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB2709	RBLN-A206WJZZY	AA		J	Ferrite Bead
FB2712	RBLN-A206WJZZY	AA		J	Ferrite Bead
FB3301	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB3302	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB3303	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB3304	RBLN-1043CEZZY	AB		J	Ferrite Bead
FB4402	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB4403	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB4409	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB4410	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB8401	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB9501	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB9502	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB9503	RBLN-A206WJZZY	AA		J	Ferrite Bead
FB9504	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB9507	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB9508	RBLN-A206WJZZY	AA		J	Ferrite Bead
FB9509	RBLN-A206WJZZY	AA		J	Ferrite Bead
FB9510	RBLN-A206WJZZY	AA		J	Ferrite Bead
FB9601	RBLN-A206WJZZY	AA		J	Ferrite Bead
FB9602	RBLN-A206WJZZY	AA		J	Ferrite Bead
FB9603	RBLN-A206WJZZY	AA		J	Ferrite Bead
FB9604	RBLN-A206WJZZY	AA		J	Ferrite Bead
FB9605	RBLN-A206WJZZY	AA		J	Ferrite Bead
FB9606	RBLN-A206WJZZY	AA		J	Ferrite Bead
FB9607	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB9608	RBLN-A042WJZZY	AB		J	Ferrite Bead
FB9609	RBLN-A042WJZZY	AB		J	Ferrite Bead
FB9610	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB9611	RBLN-A042WJZZY	AB		J	Ferrite Bead
FB9612	RBLN-A042WJZZY	AB		J	Ferrite Bead
FB9613	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB9614	RBLN-A042WJZZY	AB		J	Ferrite Bead
FB9615	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB9616	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB9617	RBLN-A206WJZZY	AA		J	Ferrite Bead
FB9618	RBLN-A206WJZZY	AA		J	Ferrite Bead
FB9619	RBLN-A042WJZZY	AB		J	Ferrite Bead
FB9620	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB9621	RBLN-A206WJZZY	AA		J	Ferrite Bead
FB9622	RBLN-A206WJZZY	AA		J	Ferrite Bead
FL2001	RFiLZA023WJQZY	AD		J	Filter
FL3501	RFiLNA119WJZZY	AC		J	Filter
FL3502	RFiLNA119WJZZY	AC		J	Filter
FL3503	RFiLNA119WJZZY	AC		J	Filter
FL3504	RFiLNA119WJZZY	AC		J	Filter
FL3505	RFiLNA119WJZZY	AC		J	Filter
FL3506	RFiLNA119WJZZY	AC		J	Filter
IC503	VHiT7SET08U1EY	AC		J	IC TC7SET08FU(5L,JF,T
IC506	VHiM3221EiP-1Y	AK		J	IC MAX3221EIP
IC507	VHiMM1507XN-1Y	AD		J	IC MM1507XNRE
IC510	VHiNJW1351B-1Y	AE		J	IC NJW1351RB1(TE1)
IC1102	VHiS172B12E-1Y	AD		J	IC S-1172B12-E6T1G
IC1104	VHiS132B50M-1Y	AD		J	IC S-1132B50-M5T1G
IC1105	RH-iXC563WJQZY	AR		J	IC LNBH23PPR/1B (LC-52/60LE830E, RU/833E)
IC1108	VHi3416C25N-1Y	AB		J	IC MM3416C25NRE (LC-52/60LE831E, S)
IC1109	VHiS170B18U-1Y	AE	N	J	IC S-1170B18UC-OTDTFG
IC1501	VHiCM123408-1Y	AE		J	IC CM1234-08DE
IC1502	VHiCM123408-1Y	AE		J	IC CM1234-08DE
IC1503	VHiCM123408-1Y	AE		J	IC CM1234-08DE
IC1504	VHiSii9387+-1Q	AQ		J	IC SII9387CTU
IC1506	VHiCM123408-1Y	AE		J	IC CM1234-08DE
IC1509	VHiS172B12U-1Y	AD		J	IC S-1172B12-U5T1G
IC2001	RH-iXD241WJN2Q			J	IC R5F21368CNFP (Monitor Microcomputer)
IC2002	VHiS80927NM-1Y	AC		J	IC S-80927CNMC-G8XT2G
IC2003	VHiLCX125FT-1Y	AD		J	IC TC74LCX125FT(ELK,M
IC2004	VHiTC7SH00U-1Y	AC		J	IC TC7SH00FU(TE85L,JF
IC2005	VHiR24002AS-1Y	AC		J	IC R1EX24002ASAS0A
IC2007	VHiAHC1G08W-1Y	AD		J	IC 74AHC1G08GW,125

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[2] DKEYDF733FM51/52/54 (MAIN Unit)					
IC2601	VHiHC2G66DP-1Y	AD		J	IC 74HC2G66DP,125
IC2701	VHiYSS951VZ-1Y	AN		J	IC YSS951-VZE2
IC2702	VHiYDA164BZ-1Y	AH		J	IC YDA164B-QZE2
IC2703	VHiYDA164BZ-1Y	AH		J	IC YDA164B-QZE2
IC2704	VHiAK4201EU-1Y	AF	N	P	IC AK4201EUP
IC2706	VHiNJM4565V-1Y	AF		J	IC NJM4565V-TE1
IC3301	VHiS172B12U-1Y	AD		J	IC S-1172B12-U5T1G
IC3303	Not Available	–	N	–	IC MT5395SGXJ (Please replace the MAIN PWB when it is necessary to replace this IC.)
IC3304	VHiRP130N33-1Y	AE	N	J	IC RP130N331B-TR-FA
IC3501	RH-iXD242WJQZQ	AW	N	P	IC K4B2G1646C-HCH9
IC3502	RH-iXD242WJQZQ	AW	N	P	IC K4B2G1646C-HCH9
IC4401	VHi3416C11N-1Y	AD	N	J	IC MM3416C11NRE
IC4402	VHiMT5135AE-1Q	AM	N	P	IC MT5135AE
IC4403	Not Available	–	N	–	IC XC6220B501PR-G (Please replace the MAIN PWB when it is necessary to replace this IC.)
IC8401	Not Available	–	N	–	IC H27U2G8F2CTR-BC (Please replace the MAIN PWB when it is necessary to replace this IC.)
IC8451	VHi7WH126FU-1Y	AE		J	IC TC7WH126FU(TE12L,F)
IC8452	VHiLCX157FT-1Y	AD		J	IC TC74LCX157FT(ELK,M
IC8454	VHiAHC1G08W-1Y	AD		J	IC 74AHC1G08GW,125
IC8455	VHiBR24S64F-1Y	AD		J	IC R1EX24064ASAS0A
IC8456	VHiRP130N33-1Y	AE	N	J	IC RP130N331B-TR-FA
IC9502	VHiAP2151WG-1Y	AG	N	J	IC AP2151WG-7
IC9503	VHiAP2181SG-1Y	AG	N	J	IC AP2181SG-13
IC9504	VHiAP2141WG-1Y	AG	N	J	IC AP2141WG-7
IC9505	VHiPD720114-1Q	AL		J	IC UPD720114GA-YEUA
IC9602	VHiMP2303A+-1Y	AF		J	IC MP2303ADN-LF-Z
IC9603	VHiS132B50M-1Y	AD		J	IC S-1132B50-M5T1G
IC9604	VHiSN910038-1Y	AG	N	J	IC SN0910038PWPR
IC9605	VHiSN910037-1Y	AK	N	J	IC SN0910037PWPR
IC9606	VHiTPS53114-1Y	AK	N	J	IC TPS53114P
IC9607	VHiMP2301E+-1Y	AF		J	IC MP2301ENE-LF-Z
IC9608	VHiMP2301E+-1Y	AF		J	IC MP2301ENE-LF-Z
IC9609	VHiRP130N33-1Y	AE	N	J	IC RP130N331B-TR-FA
IC9610	VHiHC2G66DP-1Y	AD		J	IC 74HC2G66DP,125
IC9611	VHiHC2G66DP-1Y	AD		J	IC 74HC2G66DP,125
J501	QJAKEA111WJQZY	AD	N	J	Jack
J504	QJAKEA113WJQZQ	AH	N	J	Jack
J511	Not Available	–	N	–	Jack (Please replace the MAIN PWB when it is necessary to replace this Jack.)
J9501	QJAKZA105WJQZQ	AF		J	Jack
J9502	QSOCZA265WJQZY	AE	N	J	Socket
J9503	QSOCZA265WJQZY	AE	N	J	Socket
J9504	QSOCZA265WJQZY	AE	N	J	Socket
L504	Not Available	–	N	–	Coil Peaking 1.8µH (Please replace the MAIN PWB when it is necessary to replace this Coil.)
L1101	RCiLPB016WJQZY	AC		J	Coil (LC-52/60LE830E, RU/833E)
L1102	Not Available	–	N	–	Coil (Please replace the MAIN PWB when it is necessary to replace this Coil.) (LC-52/60LE830E, RU)
L1103	VPCEM100MR70NY	AC		J	Coil Peaking 10µH (LC-52/60LE830E, RU/833E)
L1104	VPCEM100MR70NY	AC		J	Coil Peaking 10µH (LC-52/60LE830E, RU/833E)
L1105	VPCEM100MR70NY	AC		J	Coil Peaking 10µH (LC-52/60LE831E, S)
L1107	VPCEM100MR70NY	AC		J	Coil Peaking 10µH
L1501	RCiLFA228WJZZY	AD		J	Coil
L1502	RCiLFA228WJZZY	AD		J	Coil
L1503	RCiLFA228WJZZY	AD		J	Coil
L1504	RCiLFA228WJZZY	AD		J	Coil
L2601	RCiLFA157WJZZY	AC		J	Coil
L2602	RCiLFA157WJZZY	AC		J	Coil
L2603	RCiLFA157WJZZY	AC		J	Coil
L2604	RCiLFA157WJZZY	AC		J	Coil
L2605	RCiLFA157WJZZY	AC		J	Coil
L2606	RCiLFA157WJZZY	AC		J	Coil
L2701	RCiLPB106WJZZY	AC		J	Coil
L2702	RCiLPB106WJZZY	AC		J	Coil
L2703	RCiLPB106WJZZY	AC		J	Coil
L2704	RCiLPB106WJZZY	AC		J	Coil
L2705	RCiLPB209WJQZY	AC		J	Coil
L2706	RCiLPB209WJQZY	AC		J	Coil
L4401	VPCEM100MR70NY	AC		J	Coil Peaking 10µH
L9501	RCiLFA228WJZZY	AD		J	Coil
L9503	RCiLFA228WJZZY	AD		J	Coil
L9504	RCiLFA228WJZZY	AD		J	Coil
L9601	RCiLPB015WJQZY	AC		J	Coil
L9602	RCiLPB009WJQZY	AD	N	J	Coil
L9603	RCiLPB009WJQZY	AD	N	J	Coil
L9604	RCiLPB009WJQZY	AD	N	J	Coil
L9605	RCiLPB015WJQZY	AC		J	Coil
L9606	RCiLPB015WJQZY	AC		J	Coil
P2001	QPLGNA335WJZZY	AD		J	Plug
P2007	QPLGNA323WJZZY	AC		J	Plug
P2601	QCNCWA671WJQZY	AH		J	Connector
P2605	QPLGNA905WJZZY	AD		J	Plug
P2701	QPLGNA906WJZZY	AE		J	Plug
P2702	QPLGNA903WJZZY	AC	N	J	Plug
P9602	QPLGNB001WJZZ	AE		J	Plug

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[2] DKEYDF733FM51/52/54 (MAIN Unit)					
Q502	VSiMH23T110-1Y	AC		J	Transistor IMH23T110
Q505	VSRT1N141U/-1Y	AB		J	Transistor RT1N141U-T111-1
Q506	VSiMH23T110-1Y	AC		J	Transistor IMH23T110
Q510	VSiSA1530AC-1Y	AA		J	Transistor ISA1530AC1-T112-1R
Q1102	VS2SC3928AR-1Y	AB		J	Transistor 2SC3928A-T112-1R
Q1103	VSRT1N141U/-1Y	AB		J	Transistor RT1N141U-T111-1
Q1106	VSiSA1530AC-1Y	AA		J	Transistor ISA1530AC1-T112-1R
Q1108	VS2SC3928AR-1Y	AB		J	Transistor 2SC3928A-T112-1R (LC-52/60LE830E, RU/833E)
Q1508	VS2SA2061++-1Y	AC		J	Transistor 2SA2061(TE85L,F)
Q1509	VSRT1N141U/-1Y	AB		J	Transistor RT1N141U-T111-1
Q1510	VSSSM6N15FU-1Y	AB		J	Transistor SSM6N15FU(TE85L,F)
Q2001	VSRT1N141U/-1Y	AB		J	Transistor RT1N141U-T111-1
Q2002	VSRT1N141C/-1Y	AB		J	Transistor RT1N141U-T112-1
Q2004	VSRT1N141C/-1Y	AB		J	Transistor RT1N141U-T112-1
Q2005	VSRT1N141C/-1Y	AB		J	Transistor RT1N141U-T112-1
Q2007	VSRT1N141C/-1Y	AB		J	Transistor RT1N141U-T112-1
Q2008	VSRN4985///-1Y	AB		J	Transistor RN4985(TE85L,F)
Q2010	VSRN4982///-1Y	AB		J	Transistor RN4982(TE85L,F)
Q2011	VSRT1P141C/-1Y	AB		J	Transistor RT1P141U-T112-1
Q2603	VSRT1N141U/-1Y	AB		J	Transistor RT1N141U-T111-1
Q2701	VSRT1N141U/-1Y	AB		J	Transistor RT1N141U-T111-1
Q2703	VSRT1N141U/-1Y	AB		J	Transistor RT1N141U-T111-1
Q9601	VSFW808ME++-1Y	AE		J	Transistor FW808-M-TL-E
Q9602	VS2SC3928AR-1Y	AB		J	Transistor 2SC3928A-T112-1R
Q9603	VSRN1902///-1Y	AC		J	Transistor RN1902(TE85L,F)/(T5L,F,T)
Q9604	VSRT1N141C/-1Y	AB		J	Transistor RT1N141U-T112-1
Q9605	VSRT1P141C/-1Y	AB		J	Transistor RT1P141U-T112-1
Q9606	VSRN4982///-1Y	AB		J	Transistor RN4982(TE85L,F)
Q9607	VSHN7G04FUA-1Y	AB		J	Transistor HN7G04FU-A(TE85L,F
R501	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R502	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R503	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R504	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R505	VRS-TQ2EF750JY	AA		J	Resistor 75 1/4W Metal Oxide
R506	VRS-TQ2EF750JY	AA		J	Resistor 75 1/4W Metal Oxide
R507	VRS-TQ2EF750JY	AA		J	Resistor 75 1/4W Metal Oxide
R508	VRS-CZ1JF513JY	AB		J	Resistor 51k 1/16W Metal Oxide
R509	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R510	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R511	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R512	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R514	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R516	VRS-TQ2EF101JY	AA		J	Resistor 100 1/4W Metal Oxide
R517	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R518	VRS-TQ2EF750JY	AA		J	Resistor 75 1/4W Metal Oxide
R519	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R520	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R521	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R522	VRS-CZ1JF221JY	AA		J	Resistor 220 1/16W Metal Oxide
R523	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R524	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R526	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R527	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R529	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R530	VRS-TQ2EF750JY	AA		J	Resistor 75 1/4W Metal Oxide
R531	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R533	VRS-CZ1JF221JY	AA		J	Resistor 220 1/16W Metal Oxide
R534	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R535	VRS-TQ2EF750JY	AA		J	Resistor 75 1/4W Metal Oxide
R537	VRS-TQ2EF750JY	AA		J	Resistor 75 1/4W Metal Oxide
R539	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R540	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R541	VRS-TQ2EF750JY	AA		J	Resistor 75 1/4W Metal Oxide
R544	VRS-TQ2EF750JY	AA		J	Resistor 75 1/4W Metal Oxide
R547	VRK-SB1FF101JY	AA		J	Resistor 100 1/32W Metal Composition
R552	VRS-TV1JD221JY	AA		J	Resistor 220 1/10W Metal Oxide
R553	VRS-TV1JD221JY	AA		J	Resistor 220 1/10W Metal Oxide
R554	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R555	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R563	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R564	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R565	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R567	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R568	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R569	VRS-CZ1JF564JY	AB		J	Resistor 560k 1/16W Metal Oxide
R570	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R571	VRS-CZ1JF564JY	AB		J	Resistor 560k 1/16W Metal Oxide
R572	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R573	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R574	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R575	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R576	VRS-CY1JF180JY	AA		J	Resistor 18 1/16W Metal Oxide
R577	VRS-CY1JF180JY	AA		J	Resistor 18 1/16W Metal Oxide
R578	VRS-CY1JF180JY	AA		J	Resistor 18 1/16W Metal Oxide
R580	VRS-TQ2EF750JY	AA		J	Resistor 75 1/4W Metal Oxide

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[2] DKEYDF733FM51/52/54 (MAIN Unit)					
R583	VRS-TQ2EF560JY	AA		J	Resistor 56 1/4W Metal Oxide
R584	VRS-TQ2EF560JY	AA		J	Resistor 56 1/4W Metal Oxide
R585	VRS-TQ2EF560JY	AA		J	Resistor 56 1/4W Metal Oxide
R586	VRS-CY1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R587	VRS-CY1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R588	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R590	VRS-TW2ED101JY	AA		J	Resistor 100 1/4W Metal Oxide
R591	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R592	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R593	VRS-TW2ED101JY	AA		J	Resistor 100 1/4W Metal Oxide
R594	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R602	VRS-CZ1JF473JY	AA		J	Resistor 47k 1/16W Metal Oxide
R604	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R606	VRS-TW2ED330JY	AA		J	Resistor 33 1/4W Metal Oxide
R607	VRS-TW2ED330JY	AA		J	Resistor 33 1/4W Metal Oxide
R608	VRS-TV1JD101JY	AA		J	Resistor 100 1/10W Metal Oxide
R609	VRS-TV1JD101JY	AA		J	Resistor 100 1/10W Metal Oxide
R613	VRS-TV1JD101JY	AA		J	Resistor 100 1/10W Metal Oxide
R615	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R618	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R620	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R624	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R625	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R627	VRS-CZ1JF473JY	AA		J	Resistor 47k 1/16W Metal Oxide
R628	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R633	VRS-CY1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R634	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R641	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R654	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R655	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R656	VRS-CZ1JF331JY	AA		J	Resistor 330 1/16W Metal Oxide
R657	VRS-CZ1JF331JY	AA		J	Resistor 330 1/16W Metal Oxide
R658	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R665	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R670	VRS-CZ1JF223FY	AA		J	Resistor 22k 1/16W Metal Oxide
R671	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R672	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R1101	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R1102	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide (LC-52/60LE831E, S)
R1103	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide (LC-52/60LE831E, S)
R1105	VRS-CZ1JF222JY	AA		J	Resistor 2.2k 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1108	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1109	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1110	VRS-CZ1JF222JY	AA		J	Resistor 2.2k 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1111	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1112	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R1113	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R1117	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R1118	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R1119	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R1120	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1121	VRS-CZ1JF391JY	AA		J	Resistor 390 1/16W Metal Oxide
R1122	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1126	VRS-CZ1JF153JY	AA		J	Resistor 15k 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1127	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1128	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1129	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1131	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1132	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1133	VRS-TQ2EF3R3JY	AA		J	Resistor 3.3 1/4W Metal Oxide (LC-52/60LE830E, RU/833E)
R1134	VRS-CZ1JF150JY	AA		J	Resistor 15 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1135	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1136	VRK-SB1FF220JY	AA		J	Resistor 22 1/32W Metal Composition (LC-52/60LE830E, RU/833E)
R1137	VRK-SB1FF220JY	AA		J	Resistor 22 1/32W Metal Composition (LC-52/60LE830E, RU/833E)
R1138	VRK-SB1FF220JY	AA		J	Resistor 22 1/32W Metal Composition (LC-52/60LE830E, RU/833E)
R1139	VRK-SB1FF220JY	AA		J	Resistor 22 1/32W Metal Composition (LC-52/60LE831E, S)
R1140	VRK-SB1FF220JY	AA		J	Resistor 22 1/32W Metal Composition (LC-52/60LE831E, S)
R1142	VRK-SA1JF100JY	AB		J	Resistor 10 1/16W Metal Composition (LC-52/60LE830E, RU/833E)
R1143	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1144	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1145	VRK-SB1FF220JY	AA		J	Resistor 22 1/32W Metal Composition (LC-52/60LE831E, S)
R1149	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1150	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1151	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1154	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1155	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1157	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1159	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1162	VRS-CY1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1164	VRS-CY1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide (LC-52/60LE831E, S)
R1176	VRS-CZ1JF331JY	AA		J	Resistor 330 1/16W Metal Oxide
R1177	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R1178	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1179	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1180	VRS-CZ1JF154JY	AA		J	Resistor 150k 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[2] DKEYDF733FM51/52/54 (MAIN Unit)					
R1181	VRS-CZ1JF222JY	AA		J	Resistor 2.2k 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1182	VRS-CZ1JF222JY	AA		J	Resistor 2.2k 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1183	VRS-CZ1JF223JY	AA		J	Resistor 22k 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1184	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1185	VRK-SB1FF000JY	AA		J	Resistor 0 1/32W Metal Composition (LC-52/60LE830E, RU/833E)
R1186	VRK-SB1FF000JY	AA		J	Resistor 0 1/32W Metal Composition (LC-52/60LE830E, RU/833E)
R1187	VRK-SB1FF000JY	AA		J	Resistor 0 1/32W Metal Composition (LC-52/60LE830E, RU/833E)
R1188	VRK-SB1FF000JY	AA		J	Resistor 0 1/32W Metal Composition (LC-52/60LE831E, S)
R1189	VRK-SB1FF000JY	AA		J	Resistor 0 1/32W Metal Composition (LC-52/60LE831E, S)
R1190	VRK-SB1FF000JY	AA		J	Resistor 0 1/32W Metal Composition (LC-52/60LE831E, S)
R1191	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1195	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1196	VRS-CZ1JF222JY	AA		J	Resistor 2.2k 1/16W Metal Oxide
R1197	VRS-CZ1JF222JY	AA		J	Resistor 2.2k 1/16W Metal Oxide
R1201	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1202	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1203	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1204	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1205	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1206	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1207	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1210	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1211	VRS-TW2HF2R2JY	AA		J	Resistor 2.2 1/2W Metal Oxide
R1212	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1507	VRS-CZ1JF273JY	AA		J	Resistor 27k 1/16W Metal Oxide
R1509	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R1512	VRK-SB1FF473JY	AB		J	Resistor 47k 1/32W Metal Composition
R1514	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R1519	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1521	VRS-CZ1JF510FY	AA		J	Resistor 51 1/16W Metal Oxide
R1522	VRS-CZ1JF510FY	AA		J	Resistor 51 1/16W Metal Oxide
R1524	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R1525	VRS-CZ1JF750FY	AA		J	Resistor 75 1/16W Metal Oxide
R1527	VRS-CZ1JF750FY	AA		J	Resistor 75 1/16W Metal Oxide
R1531	VRK-SA1JF100JY	AB		J	Resistor 10 1/16W Metal Composition
R1533	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R1534	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R1536	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1537	VRK-SA1JF100JY	AB		J	Resistor 10 1/16W Metal Composition
R1538	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R1540	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R1541	VRK-SB1FF100JY	AA		J	Resistor 10 1/32W Metal Composition
R1542	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R1543	VRK-SA1JF100JY	AB		J	Resistor 10 1/16W Metal Composition
R1545	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1551	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R1552	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R1553	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R1554	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R1555	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R1556	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R1557	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R1558	VRS-CZ1JF331JY	AA		J	Resistor 330 1/16W Metal Oxide
R1561	VRK-SB1FF473JY	AB		J	Resistor 47k 1/32W Metal Composition
R1562	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1563	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1565	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R1566	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R1567	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1568	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1569	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R1571	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1572	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1573	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1574	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1575	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1576	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1577	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1581	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1582	VRK-SA1JF100JY	AB		J	Resistor 10 1/16W Metal Composition
R1583	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1584	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R1585	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1589	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R1595	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R1597	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1598	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1599	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1600	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1601	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1602	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1603	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1604	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1605	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1606	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[2] DKEYDF733FM51/52/54 (MAIN Unit)					
R1607	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1608	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1609	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1610	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1611	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1612	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1613	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1614	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1615	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1616	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1617	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1619	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R1621	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R1623	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R1629	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2001	VRS-CY1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2002	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R2003	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2005	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2006	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2007	VRK-SA1JF222JY	AB		J	Resistor 2.2k 1/16W Metal Composition
R2008	VRS-CZ1JF223JY	AA		J	Resistor 22k 1/16W Metal Oxide
R2009	VRS-CZ1JF223JY	AA		J	Resistor 22k 1/16W Metal Oxide
R2011	VRS-CZ1JF333JY	AA		J	Resistor 33k 1/16W Metal Oxide
R2012	VRS-CZ1JF333JY	AA		J	Resistor 33k 1/16W Metal Oxide
R2014	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R2015	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R2016	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R2019	VRK-SA1JF100JY	AB		J	Resistor 10 1/16W Metal Composition
R2020	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2025	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R2026	VRS-CZ1JF473JY	AA		J	Resistor 47k 1/16W Metal Oxide
R2028	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R2029	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R2030	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R2031	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2032	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2033	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R2034	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R2035	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R2036	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R2037	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R2038	VRS-CZ1JF106JY	AA		J	Resistor 10M 1/16W Metal Oxide
R2040	VRK-SA1JF221JY	AE	N	J	Resistor 220 1/16W Metal Composition
R2041	VRS-CZ1JF394JY	AA		J	Resistor 390k 1/16W Metal Oxide
R2043	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2044	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R2045	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2047	VRS-CZ1JF223JY	AA		J	Resistor 22k 1/16W Metal Oxide
R2049	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R2050	VRK-SA1JF221JY	AE	N	J	Resistor 220 1/16W Metal Composition
R2051	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R2052	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R2053	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R2054	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R2055	VRS-CZ1JF273JY	AA		J	Resistor 27k 1/16W Metal Oxide
R2056	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R2057	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2059	VRK-SB1FF103JY	AA		J	Resistor 10k 1/32W Metal Composition
R2060	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2061	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2062	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2066	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R2069	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R2070	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2072	VRS-CZ1JF272JY	AA		J	Resistor 2.7k 1/16W Metal Oxide
R2601	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2613	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2620	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2635	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2636	VRS-CZ1JF105JY	AA		J	Resistor 1M 1/16W Metal Oxide
R2642	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2645	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2649	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2701	VRK-SA1JF100JY	AB		J	Resistor 10 1/16W Metal Composition
R2702	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R2703	VRS-CZ1JF105JY	AA		J	Resistor 1M 1/16W Metal Oxide
R2706	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2707	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2708	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R2709	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R2710	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2714	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R2715	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R2716	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[2] DKEYDF733FM51/52/54 (MAIN Unit)					
R2717	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2718	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2719	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2720	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2725	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2726	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2727	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2728	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2729	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2730	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2731	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2732	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2733	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2734	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2735	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2736	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2738	VRS-CZ1JF564JY	AB		J	Resistor 560k 1/16W Metal Oxide
R2739	VRS-CZ1JF153JY	AA		J	Resistor 15k 1/16W Metal Oxide
R2740	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2743	VRS-CZ1JF564JY	AB		J	Resistor 560k 1/16W Metal Oxide
R2744	VRS-CZ1JF153JY	AA		J	Resistor 15k 1/16W Metal Oxide
R2745	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2746	VRS-CZ1JF224JY	AA		J	Resistor 220k 1/16W Metal Oxide
R2748	VRS-CZ1JF473JY	AA		J	Resistor 47k 1/16W Metal Oxide
R2749	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2751	VRS-CZ1JF473JY	AA		J	Resistor 47k 1/16W Metal Oxide
R2752	VRS-CZ1JF153JY	AA		J	Resistor 15k 1/16W Metal Oxide
R2753	VRS-CZ1JF563JY	AA		J	Resistor 56k 1/16W Metal Oxide
R2754	VRS-CZ1JF223JY	AA		J	Resistor 22k 1/16W Metal Oxide
R2756	VRS-CZ1JF563JY	AA		J	Resistor 56k 1/16W Metal Oxide
R2757	VRS-CZ1JF473JY	AA		J	Resistor 47k 1/16W Metal Oxide
R2758	VRS-CZ1JF333JY	AA		J	Resistor 33k 1/16W Metal Oxide
R2759	VRS-CZ1JF563JY	AA		J	Resistor 56k 1/16W Metal Oxide
R2763	VRS-TV1JD000JY	AA		J	Resistor 0 1/10W Metal Oxide
R2764	VRS-TV1JD000JY	AA		J	Resistor 0 1/10W Metal Oxide
R2765	VRS-TV1JD000JY	AA		J	Resistor 0 1/10W Metal Oxide
R2766	VRS-TV1JD000JY	AA		J	Resistor 0 1/10W Metal Oxide
R2769	VRS-CZ1JF473JY	AA		J	Resistor 47k 1/16W Metal Oxide
R2770	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R2771	VRS-CZ1JF473JY	AA		J	Resistor 47k 1/16W Metal Oxide
R2779	VRS-CZ1JF473JY	AA		J	Resistor 47k 1/16W Metal Oxide
R2781	VRS-CZ1JF563JY	AA		J	Resistor 56k 1/16W Metal Oxide
R2782	VRS-CZ1JF333JY	AA		J	Resistor 33k 1/16W Metal Oxide
R2783	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2784	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2788	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2790	VRS-CZ1JF153JY	AA		J	Resistor 15k 1/16W Metal Oxide
R2791	VRS-CZ1JF153JY	AA		J	Resistor 15k 1/16W Metal Oxide
R2816	VRS-CZ1JF223JY	AA		J	Resistor 22k 1/16W Metal Oxide
R2817	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2839	VRS-CY1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2840	VRS-CY1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2842	VRS-CY1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3303	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3305	VRK-SB1FF102JY	AC		J	Resistor 1k 1/32W Metal Composition
R3306	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R3307	VRS-CZ1JF331FY	AA		J	Resistor 330 1/16W Metal Oxide
R3308	VRS-CZ1JF331FY	AA		J	Resistor 330 1/16W Metal Oxide
R3309	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R3310	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R3311	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3312	VRS-CZ1JF560JY	AA		J	Resistor 56 1/16W Metal Oxide
R3313	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R3314	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R3316	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R3318	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R3320	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R3321	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R3323	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R3324	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R3325	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R3327	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R3329	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R3330	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3331	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3333	VRS-CZ1JF512FY	AA		J	Resistor 5.1k 1/16W Metal Oxide
R3335	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R3337	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R3338	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R3339	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3340	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R3341	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R3343	VRS-CZ1JF561FY	AA		J	Resistor 560 1/16W Metal Oxide
R3344	VRS-CZ1JF123FY	AA		J	Resistor 12k 1/16W Metal Oxide
R3345	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[2] DKEYDF733FM51/52/54 (MAIN Unit)					
R3346	VRS-CZ1JF105JY	AA		J	Resistor 1M 1/16W Metal Oxide
R3347	VRS-CZ1JF123FY	AA		J	Resistor 12k 1/16W Metal Oxide
R3348	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R3349	VRS-CZ1JF123FY	AA		J	Resistor 12k 1/16W Metal Oxide
R3350	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3351	VRS-CZ1JF222JY	AA		J	Resistor 2.2k 1/16W Metal Oxide
R3352	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R3353	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3354	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3355	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3359	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R3360	VRS-CZ1JF221JY	AA		J	Resistor 220 1/16W Metal Oxide
R3361	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R3362	VRS-CZ1JF680JY	AB		J	Resistor 68 1/16W Metal Oxide
R3363	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3364	VRK-SB1FF000JY	AA		J	Resistor 0 1/32W Metal Composition
R3367	VRS-CZ1JF680JY	AB		J	Resistor 68 1/16W Metal Oxide
R3368	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R3369	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R3370	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3371	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3372	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3373	VRS-CZ1JF680JY	AB		J	Resistor 68 1/16W Metal Oxide
R3374	VRS-CZ1JF680JY	AB		J	Resistor 68 1/16W Metal Oxide
R3375	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3376	VRS-CZ1JF680JY	AB		J	Resistor 68 1/16W Metal Oxide
R3377	VRS-CZ1JF680JY	AB		J	Resistor 68 1/16W Metal Oxide
R3378	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3379	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3380	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3381	VRS-CZ1JF680JY	AB		J	Resistor 68 1/16W Metal Oxide
R3382	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3383	VRS-CZ1JF680JY	AB		J	Resistor 68 1/16W Metal Oxide
R3384	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3385	VRS-CZ1JF303JY	AA		J	Resistor 30k 1/16W Metal Oxide
R3386	VRS-CZ1JF303JY	AA		J	Resistor 30k 1/16W Metal Oxide
R3387	VRS-CZ1JF303JY	AA		J	Resistor 30k 1/16W Metal Oxide
R3388	VRS-CZ1JF303JY	AA		J	Resistor 30k 1/16W Metal Oxide
R3389	VRS-CZ1JF303JY	AA		J	Resistor 30k 1/16W Metal Oxide
R3390	VRS-CZ1JF303JY	AA		J	Resistor 30k 1/16W Metal Oxide
R3391	VRS-CZ1JF303JY	AA		J	Resistor 30k 1/16W Metal Oxide
R3392	VRS-CZ1JF303JY	AA		J	Resistor 30k 1/16W Metal Oxide
R3393	VRS-CZ1JF303JY	AA		J	Resistor 30k 1/16W Metal Oxide
R3394	VRS-CZ1JF303JY	AA		J	Resistor 30k 1/16W Metal Oxide
R3395	VRS-CZ1JF680JY	AB		J	Resistor 68 1/16W Metal Oxide
R3396	VRS-CZ1JF390JY	AA		J	Resistor 39 1/16W Metal Oxide
R3397	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3398	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R3401	VRS-CZ1JF223JY	AA		J	Resistor 22k 1/16W Metal Oxide
R3406	VRS-CZ1JF223JY	AA		J	Resistor 22k 1/16W Metal Oxide
R3407	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R3408	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R3409	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R3410	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R3411	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R3412	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3413	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3414	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3415	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3416	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3417	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3418	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3419	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R3420	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R3421	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R3422	VRS-CZ1JF222JY	AA		J	Resistor 2.2k 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R3423	VRS-CZ1JF222JY	AA		J	Resistor 2.2k 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R3424	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R3427	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R3428	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R3429	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R3430	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R3431	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R3433	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R3434	VRS-CZ1JF331JY	AA		J	Resistor 330 1/16W Metal Oxide
R3435	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R3436	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R3439	VRS-CY1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3440	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3443	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3501	VRS-CZ1JF102FY	AA		J	Resistor 1k 1/16W Metal Oxide
R3502	VRS-CZ1JF102FY	AA		J	Resistor 1k 1/16W Metal Oxide
R3503	VRS-CZ1JF241FY	AB		J	Resistor 240 1/16W Metal Oxide
R3504	VRS-CZ1JF102FY	AA		J	Resistor 1k 1/16W Metal Oxide
R3505	VRS-CZ1JF102FY	AA		J	Resistor 1k 1/16W Metal Oxide

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[2] DKEYDF733FM51/52/54 (MAIN Unit)					
R3506	VRK-SA1JF000JY	AB		J	Resistor 0 1/16W Metal Composition
R3507	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R3508	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R3509	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R3510	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R3511	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R3512	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3513	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R3514	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R3515	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R3516	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R3517	VRS-CZ1JF102FY	AA		J	Resistor 1k 1/16W Metal Oxide
R3518	VRS-CZ1JF102FY	AA		J	Resistor 1k 1/16W Metal Oxide
R3519	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3520	VRS-CZ1JF241FY	AB		J	Resistor 240 1/16W Metal Oxide
R3521	VRS-CZ1JF102FY	AA		J	Resistor 1k 1/16W Metal Oxide
R3522	VRS-CZ1JF102FY	AA		J	Resistor 1k 1/16W Metal Oxide
R3523	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R3524	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R3525	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R3526	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R3527	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R3528	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R3529	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R3530	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R3531	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R3532	VRK-SA1JF000JY	AB		J	Resistor 0 1/16W Metal Composition
R4402	VRK-SB1FF473JY	AB		J	Resistor 47k 1/32W Metal Composition (LC-52/60LE831E, S)
R4403	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R4404	VRS-CZ1JF105JY	AA		J	Resistor 1M 1/16W Metal Oxide
R4405	VRS-CZ1JF152JY	AA		J	Resistor 1.5k 1/16W Metal Oxide
R4406	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R4409	VRK-SB1FF220JY	AA		J	Resistor 22 1/32W Metal Composition
R4412	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R4413	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R4415	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R4417	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R4418	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R4419	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R4420	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R4421	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R4422	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R4423	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R4424	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R4425	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R4426	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R4430	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R4431	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R4434	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R4435	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R4436	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R4438	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R4439	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R4441	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R4443	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R4444	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R4454	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R4455	VRK-SA1JF000JY	AB		J	Resistor 0 1/16W Metal Composition (LC-52/60LE830E, RU/833E)
R4457	VRK-SA1JF000JY	AB		J	Resistor 0 1/16W Metal Composition (LC-52/60LE831E, S)
R4459	VRK-SA1JF100JY	AB		J	Resistor 10 1/16W Metal Composition (LC-52/60LE830E, RU/833E)
R8401	VRK-SA1JF102JY	AB		J	Resistor 1k 1/16W Metal Composition
R8402	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R8403	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R8405	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R8406	VRK-SB1FF103JY	AA		J	Resistor 10k 1/32W Metal Composition
R8408	VRS-CZ1JF820JY	AA		J	Resistor 82 1/16W Metal Oxide
R8409	VRS-CZ1JF820JY	AA		J	Resistor 82 1/16W Metal Oxide
R8414	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R8415	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R8416	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R8417	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R8420	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R8451	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R8452	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R8453	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R8454	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R8455	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R8458	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R8459	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R8462	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R8463	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R8467	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R8468	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R8472	VRK-SA1JF102JY	AB		J	Resistor 1k 1/16W Metal Composition
R8477	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[2] DKEYDF733FM51/52/54 (MAIN Unit)					
R8478	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R8479	VRS-CZ1JF473JY	AA		J	Resistor 47k 1/16W Metal Oxide
R8480	VRK-SA1JF100JY	AB		J	Resistor 10 1/16W Metal Composition
R8481	VRS-CZ1JF332JY	AA		J	Resistor 3.3k 1/16W Metal Oxide
R8482	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R8487	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R8488	VRS-CZ1JF820JY	AA		J	Resistor 82 1/16W Metal Oxide
R8489	VRS-CZ1JF820JY	AA		J	Resistor 82 1/16W Metal Oxide
R8490	VRS-CZ1JF820JY	AA		J	Resistor 82 1/16W Metal Oxide
R8491	VRS-CZ1JF820JY	AA		J	Resistor 82 1/16W Metal Oxide
R9501	VRS-CZ1JF750FY	AA		J	Resistor 75 1/16W Metal Oxide
R9502	VRS-CZ1JF750FY	AA		J	Resistor 75 1/16W Metal Oxide
R9503	VRS-CZ1JF750FY	AA		J	Resistor 75 1/16W Metal Oxide
R9504	VRS-CZ1JF750FY	AA		J	Resistor 75 1/16W Metal Oxide
R9506	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R9509	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R9510	VRS-CZ1JF153FY	AA		J	Resistor 15k 1/16W Metal Oxide
R9511	VRS-CZ1JF473JY	AA		J	Resistor 47k 1/16W Metal Oxide
R9512	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R9513	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R9514	VRS-CZ1JF514JY	AA		J	Resistor 510k 1/16W Metal Oxide
R9516	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R9517	VRS-CZ1JF514JY	AA		J	Resistor 510k 1/16W Metal Oxide
R9518	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R9519	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R9520	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R9521	VRS-CZ1JF103FY	AB		J	Resistor 10k 1/16W Metal Oxide
R9522	RR-SZA126WJQZY	AA		J	Resistor 2.43k
R9554	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R9555	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R9556	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R9601	VRS-CZ1JF682JY	AA		J	Resistor 6.8k 1/16W Metal Oxide
R9602	VRS-CZ1JF473FY	AA		J	Resistor 47k 1/16W Metal Oxide
R9603	VRS-CZ1JF103FY	AB		J	Resistor 10k 1/16W Metal Oxide
R9604	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R9605	VRS-CZ1JF332JY	AA		J	Resistor 3.3k 1/16W Metal Oxide
R9606	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R9607	VRS-CZ1JF4R7JY	AA		J	Resistor 4.7 1/16W Metal Oxide
R9608	VRS-TV2BD000JY	AB		J	Resistor 0 1/10W Metal Oxide
R9609	VRS-CZ1JF4R7JY	AA		J	Resistor 4.7 1/16W Metal Oxide
R9610	VRS-CZ1JF223FY	AA		J	Resistor 22k 1/16W Metal Oxide
R9611	VRS-CZ1JF223FY	AA		J	Resistor 22k 1/16W Metal Oxide
R9612	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R9613	VRS-CZ1JF4R7JY	AA		J	Resistor 4.7 1/16W Metal Oxide
R9614	VRS-CZ1JF153JY	AA		J	Resistor 15k 1/16W Metal Oxide
R9615	VRS-CZ1JF4R7JY	AA		J	Resistor 4.7 1/16W Metal Oxide
R9616	VRS-CZ1JF103FY	AB		J	Resistor 10k 1/16W Metal Oxide
R9617	VRS-CZ1JF103FY	AB		J	Resistor 10k 1/16W Metal Oxide
R9618	VRS-CZ1JF393JY	AA		J	Resistor 39k 1/16W Metal Oxide
R9619	VRS-CZ1JF272JY	AA		J	Resistor 2.7k 1/16W Metal Oxide
R9620	VRS-CZ1JF472FY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R9621	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R9622	VRS-CZ1JF222JY	AA		J	Resistor 2.2k 1/16W Metal Oxide
R9623	VRS-CZ1JF103FY	AB		J	Resistor 10k 1/16W Metal Oxide
R9624	VRS-CZ1JF103FY	AB		J	Resistor 10k 1/16W Metal Oxide
R9625	VRS-CZ1JF333FY	AA		J	Resistor 33k 1/16W Metal Oxide
R9626	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R9627	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R9628	VRS-CZ1JF4R7JY	AA		J	Resistor 4.7 1/16W Metal Oxide
R9629	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R9630	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R9631	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R9632	VRS-CZ1JF332JY	AA		J	Resistor 3.3k 1/16W Metal Oxide
R9633	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R9634	VRS-CZ1JF473JY	AA		J	Resistor 47k 1/16W Metal Oxide
R9635	VRS-CZ1JF563FY	AA		J	Resistor 56k 1/16W Metal Oxide
R9636	VRS-CZ1JF103FY	AB		J	Resistor 10k 1/16W Metal Oxide
R9637	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R9638	VRS-CZ1JF332JY	AA		J	Resistor 3.3k 1/16W Metal Oxide
R9639	VRS-CZ1JF4R7JY	AA		J	Resistor 4.7 1/16W Metal Oxide
R9643	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R9644	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R9646	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R9649	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R9650	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R9651	VRS-TV2BD000JY	AB		J	Resistor 0 1/10W Metal Oxide
R9652	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R9664	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R9667	VRS-CZ1JF473JY	AA		J	Resistor 47k 1/16W Metal Oxide
R9668	VRS-CZ1JF473JY	AA		J	Resistor 47k 1/16W Metal Oxide
R9679	VRS-TV2BD000JY	AB		J	Resistor 0 1/10W Metal Oxide
R9680	VRS-TV2BD000JY	AB		J	Resistor 0 1/10W Metal Oxide
R9681	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R9683	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
SC501	QSOCNA816WJZZ	AG	N	J	Socket

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[2] DKEYDF733FM51/52/54 (MAIN Unit)					
SC504	Not Available	–	N	–	Socket (Please replace the MAIN PWB when it is necessary to replace this Socket.)
SC505	Not Available	–	N	–	Socket (Please replace the MAIN PWB when it is necessary to replace this Socket.)
SC1501	QSOCZA264WJQZY	AE		J	Socket
SC1502	QSOCZA264WJQZY	AE		J	Socket
SC1503	QSOCZA264WJQZY	AE		J	Socket
SC1505	QSOCZA264WJQZY	AE		J	Socket
SC4401	Not Available	–	N	–	Connector (Please replace the MAIN PWB when it is necessary to replace this Connector.)
SC8454	Not Available	–	N	–	Socket (Please replace the MAIN PWB when it is necessary to replace this Socket.)
T9501	RTRNZA129WJQZY	AH		J	Transformer
TH2001	VHHM1103J15-1Y	AB		J	Thermistor
TU1102	RTUDWA029WJQZ	BF	N	P	Tuner (LC-52/60LE830E, RU/833E)
TU1104	RTUDAA072WJQZ	BL	N	P	Tuner (LC-52/60LE831E, S)
VA501	RH-VXA005WJZZY	AA		J	Varistor AVR-M1005C270MTABB
VA502	RH-VXA005WJZZY	AA		J	Varistor AVR-M1005C270MTABB
VA506	RH-VXA005WJZZY	AA		J	Varistor AVR-M1005C270MTABB
VA507	RH-VXA005WJZZY	AA		J	Varistor AVR-M1005C270MTABB
VA508	RH-VXA005WJZZY	AA		J	Varistor AVR-M1005C270MTABB
VA509	RH-VXA005WJZZY	AA		J	Varistor AVR-M1005C270MTABB
VA510	RH-VXA005WJZZY	AA		J	Varistor AVR-M1005C270MTABB
VA1501	RH-VXA074WJZZY	AB		J	Varistor AVRL101A1R1NTB
VA1502	RH-VXA074WJZZY	AB		J	Varistor AVRL101A1R1NTB
VA1503	RH-VXA074WJZZY	AB		J	Varistor AVRL101A1R1NTB
VA1504	RH-VXA074WJZZY	AB		J	Varistor AVRL101A1R1NTB
VA1506	RH-VXA074WJZZY	AB		J	Varistor AVRL101A1R1NTB
VA1508	RH-VXA074WJZZY	AB		J	Varistor AVRL101A1R1NTB
VA1509	RH-VXA074WJZZY	AB		J	Varistor AVRL101A1R1NTB
VA1510	RH-VXA074WJZZY	AB		J	Varistor AVRL101A1R1NTB
VA9501	RH-VXA074WJZZY	AB		J	Varistor AVRL101A1R1NTB
VA9502	RH-VXA074WJZZY	AB		J	Varistor AVRL101A1R1NTB
VA9503	RH-VXA074WJZZY	AB		J	Varistor AVRL101A1R1NTB
VA9504	RH-VXA074WJZZY	AB		J	Varistor AVRL101A1R1NTB
VA9505	RH-VXA074WJZZY	AB		J	Varistor AVRL101A1R1NTB
VA9506	RH-VXA074WJZZY	AB		J	Varistor AVRL101A1R1NTB
X2001	RCRSC0032TAZZY	AG		J	Crystal
X2701	RCRSCA235WJQZY	AD		J	Crystal
X3301	RCRSCA237WJQZY	AD		J	Crystal
X4401	RCRSCA237WJQZY	AD		J	Crystal
X9502	RCRSCA238WJQZY	AD		J	Crystal
[3] DUNTKF494FM02 (R/C OPC Unit)					
C101	VCKYCY1HB103KY	AA		J	Capacitor 0.01 50V Ceramic
C103	RC-KZA385WJZZY	AD		J	Capacitor 22 6.3V Ceramic
C104	RC-KZA385WJZZY	AD		J	Capacitor 22 6.3V Ceramic
C105	RC-KZA616WJQZY	AB		J	Capacitor 10 10V Ceramic
D104	RH-EXA633WJQZY	AA		J	Zener Diode RKZ5.6B2KG
IC101	VHiGA1S100W-1Y	AE		J	IC GA1A1S100WP
P103	QPLGNA325WJZZY	AC		J	Plug
R106	VRS-CY1JF223JY	AA		J	Resistor 22k 1/16W Metal Oxide
R113	VRS-CY1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R120	VRS-CY1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
RMC101	RRMCUA053WJZZ	AE		J	Remote Receiver
SLD101	PSLDPA076WJFW	AD		J	Shield
[4] DUNTKF770FM51 (ICON Unit)					
D201	RH-PXA207WJZZY	AE	N	J	LED CL-194S-HB8-SD-T
D202	RH-PXA207WJZZY	AE	N	J	LED CL-194S-HB8-SD-T
D203	RH-PXA207WJZZY	AE	N	J	LED CL-194S-HB8-SD-T
D204	RH-PXA189WJPZY	AD		J	LED NESW156T
D205	RH-PXA189WJPZY	AD		J	LED NESW156T
P202	QPLGNA323WJZZY	AC		J	Plug
R201	VRS-TV1JD131JY	AA		J	Resistor 130 1/10W Metal Oxide
R202	VRS-TV1JD131JY	AA		J	Resistor 130 1/10W Metal Oxide
R203	VRS-TV1JD131JY	AA		J	Resistor 130 1/10W Metal Oxide
R204	VRS-TV1JD131JY	AA		J	Resistor 130 1/10W Metal Oxide
R205	VRS-TV1JD131JY	AA		J	Resistor 130 1/10W Metal Oxide

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SH. DS

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AV Systems Group
CS Promotion Center
Yaita,Tochigi 329-2193, Japan

SHARP SERVICE MANUAL

No. S81T352LE830E

LCD COLOUR TELEVISION

LCD Module Edition

MODELS

LC-52/60LE830E/RU/E[B]/RU[B]
LC-52/60LE831E/S/E[B]/S[B]
LC-52/60LE833E/E[B]
LC-60LE635E/RU
LC-60LE636E/S
LC-60LE638E

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

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OUTLINE **Parts Guide**

CHAPTER 1. Removing LCD Module
[1] Removing LCD Module (LC-52LE835E/RU,831E/S,833E)..... 1-1
[2] Removing LCD Module (LC-60LE835E/RU/E[B]/RU[B],831E/S/E[B]/S[B],833E/E[B],60LE635E/RU,636E/S,638E)..... 1-2

Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

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OUTLINE

- **Information of service parts in the LCD Module**

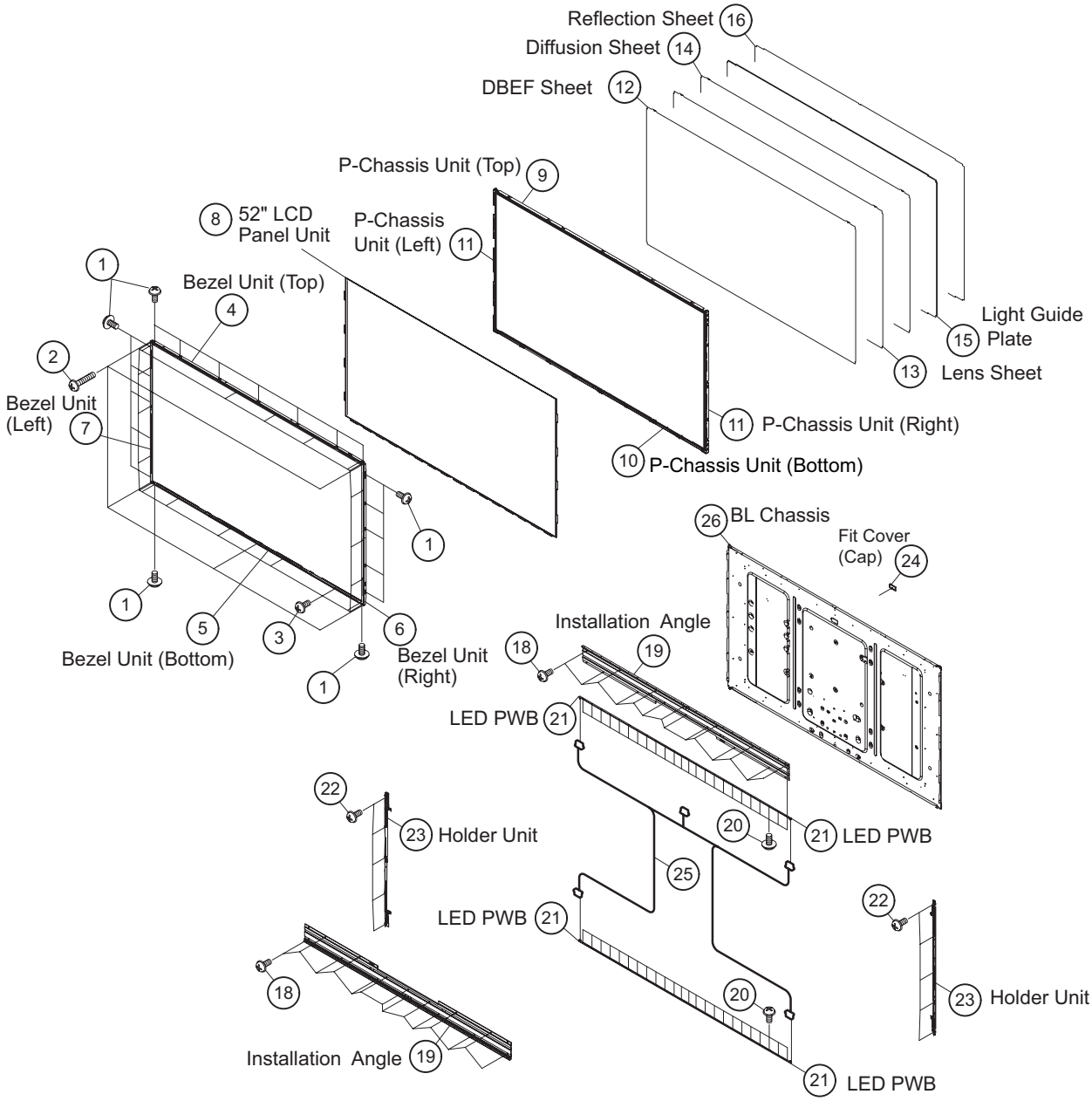
Unit

Model Name	Unit Name	Description
LC-52LE830E/RU,831E/S,833E	R1LK520D3GW40P	52" LCD Panel Module Unit (LK520D3GW40P)
LC-52LE830E[B]/RU[B],831E[B]/S[B],833E[B]	R1LK520D3GW4BY	52" LCD Panel Module Unit (LK520D3GW4BY)
LC-60LE830E/RU,831E/S,833E	R1LK600D3GW40H	60" LCD Panel Module Unit (LK600D3GW40H)
LC-60LE830E[B]/RU[B],831E[B]/S[B],833E[B]	R1LK600D3GW4BH	60" LCD Panel Module Unit (LK600D3GW4BH)
LC-60LE635E/RU,636E/S,638E	R1LK600D3GW7CH	60" LCD Panel Module Unit (LK600D3GW7CH)

CHAPTER 1. Removing LCD Module

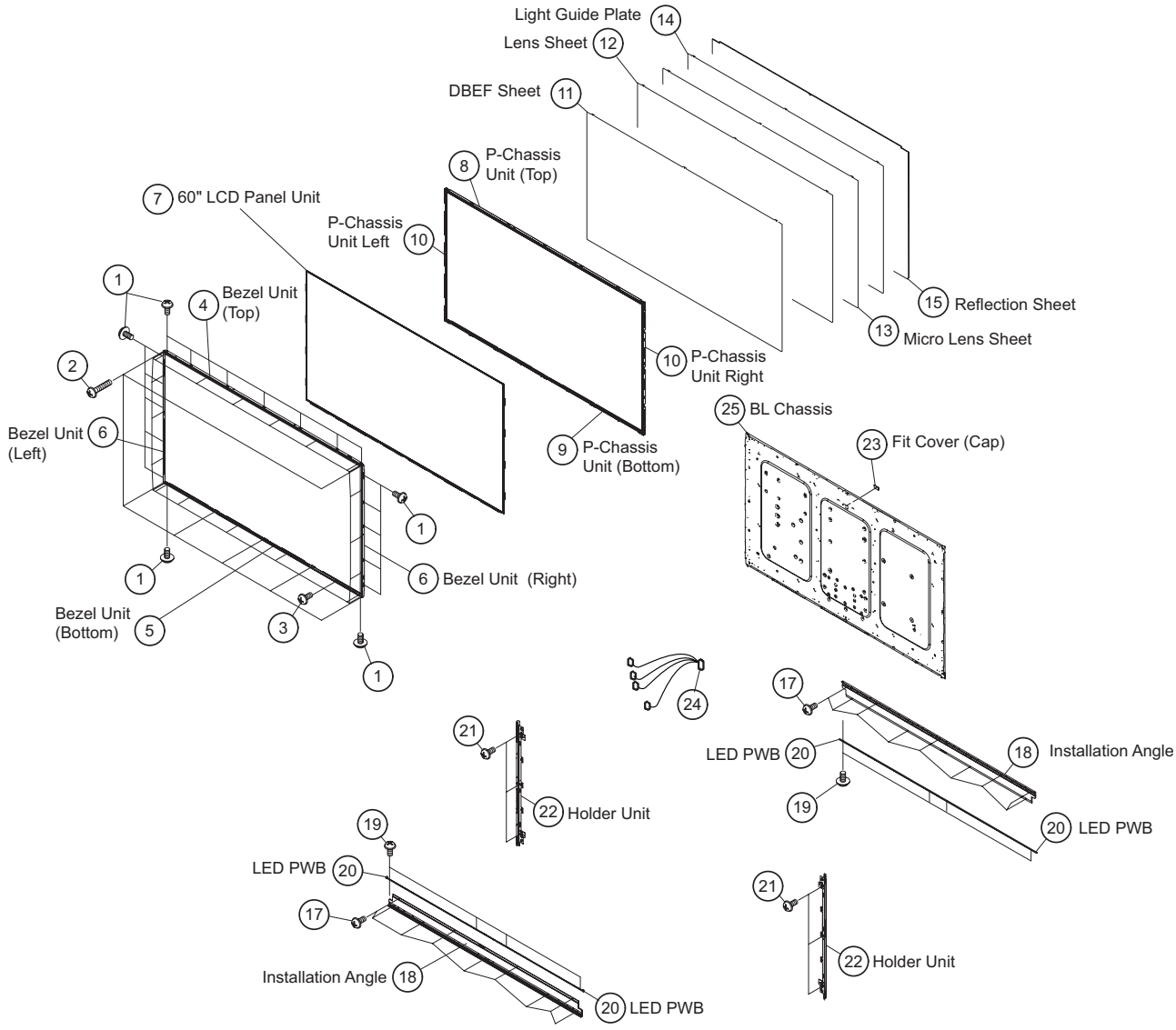
[1] Removing LCD Module (LC-52LE835E/RU,831E/S,833E)

1. Remove the 19 lock screws ①, 5 lock screws ②, 21 lock screws ③ and detach the Bezel Unit (Top) ④, Bezel Unit (Bottom) ⑤, Bezel Unit (Right) ⑥, Bezel Unit (Left) ⑦.
2. Detach the 52” LCD Panel Unit ⑧, P-Chassis (Top) ⑨, P-Chassis (Bottom) ⑩, 2 P-Chassis (Left/Right) ⑪.
3. Detach the DBEF Sheet ⑫, Lens Sheets ⑬, Diffusion Sheets ⑭, Light Guide Plate ⑮, Reflection Sheet ⑯.
4. Remove the 28 lock screws ⑱, and detach the 2 Installation Angle ⑲.
5. Remove the 48 lock screws ⑳, and detach the 4 LED PWB ㉑.
6. Remove the 10 lock screws ㉒, and detach the 2 Holder Unit ㉓.
7. Detach the Fit Cover (Cap) ㉔, and Disconnect the LED PWB Connection Harness ㉕.
8. Detach the BL Chassis ㉖ .



[2] Removing LCD Module (LC-60LE835E/RU/E[B]/RU[B],831E/S/E[B]/S[B],833E/E[B],60LE635E/RU,636E/S,638E)

1. Remove the 19 lock screws ①, 7 lock screws ②, 22 lock screws ③ and detach the Bezel Unit (Top) ④, Bezel Unit (Bottom) ⑤, Bezel Unit (Right/Left) ⑥.
2. Detach the 60” LCD Panel Unit ⑦, P-Chassis (Top) ⑧, P-Chassis (Bottom) ⑨, 2 P-Chassis (Right/Left) ⑩.
3. Detach the DBEF Sheet ⑪, Lens Sheets ⑫, Micro Lens Sheets ⑬, Light Guide Plate ⑭, Reflection Sheet ⑮.
4. Remove the 18 lock screws ⑰, and detach the 2 Installation Angle ⑱.
5. Remove the 8 lock screws ⑲, and detach the 4 LED PWB ⑳.
6. Remove the 6 lock screws ㉑, and detach the 2 Holder Unit ㉒.
7. Detach the Fit Cover (Cap) ㉓, and Disconnect the LED PWB Connection Harness ㉔.
8. Detach the BL Chassis ㉕ .



SHARP PARTS GUIDE

No. S81T352LE830E

LCD COLOUR TELEVISION

MODELS

LC-52/60LE830E/RU/E[B]/RU[B]
LC-52/60LE831E/S/E[B]/S[B]
LC-52/60LE833E/E[B]
LC-60LE635E/RU
LC-60LE636E/S
LC-60LE638E

CONTENTS

[1] LCD PANEL MODULE UNIT (LC-52LE830E/RU/E[B}/RU[B],831E/S/E[B]/S[B],833E/E[B])

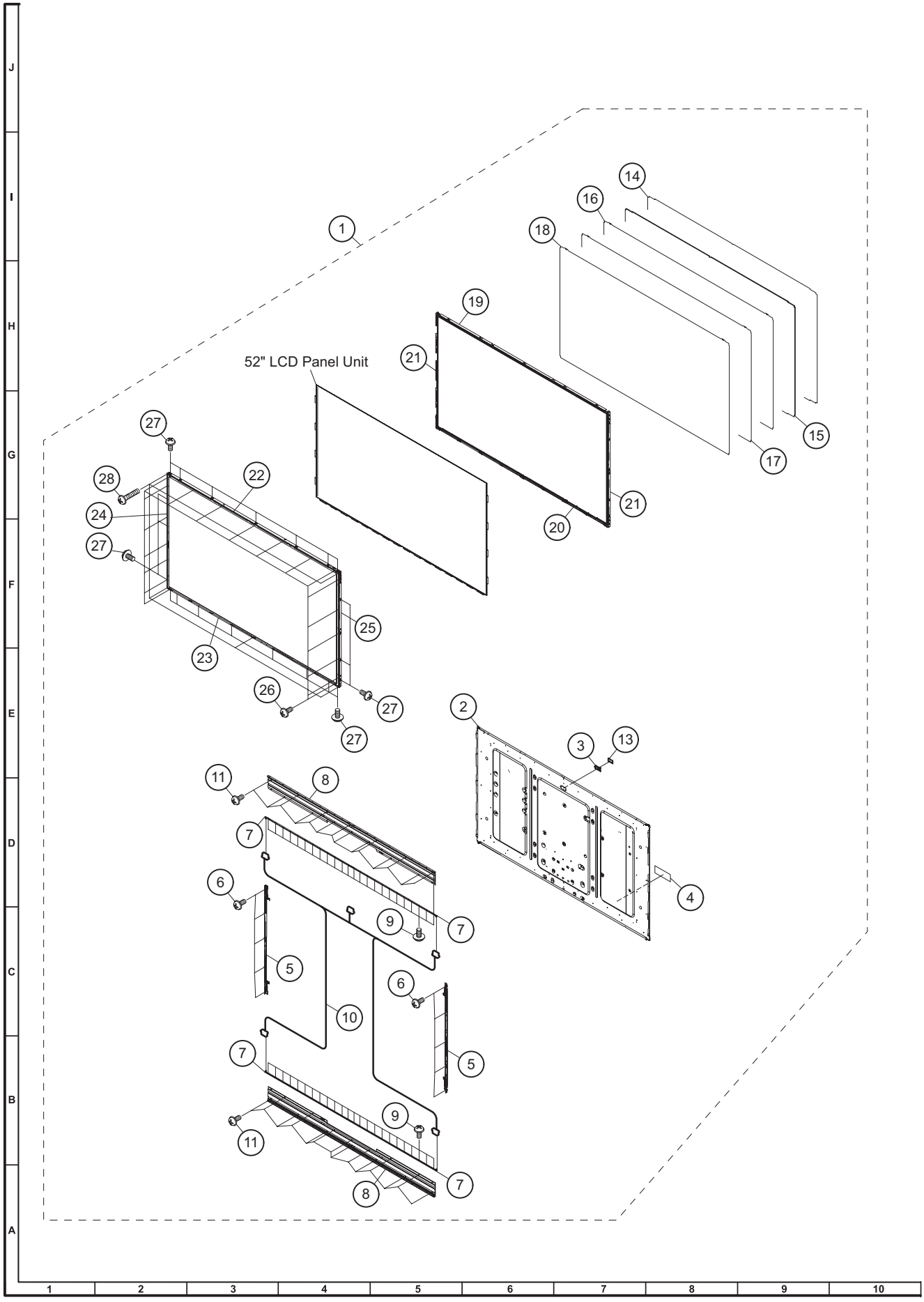
[2] LCD PANEL MODULE UNIT (LC-60LE830E/RU/E[B]/RU[B],831E/S/E[B]/S[B],833E/E[B]/60LE635E/RU,636E/S,638E)

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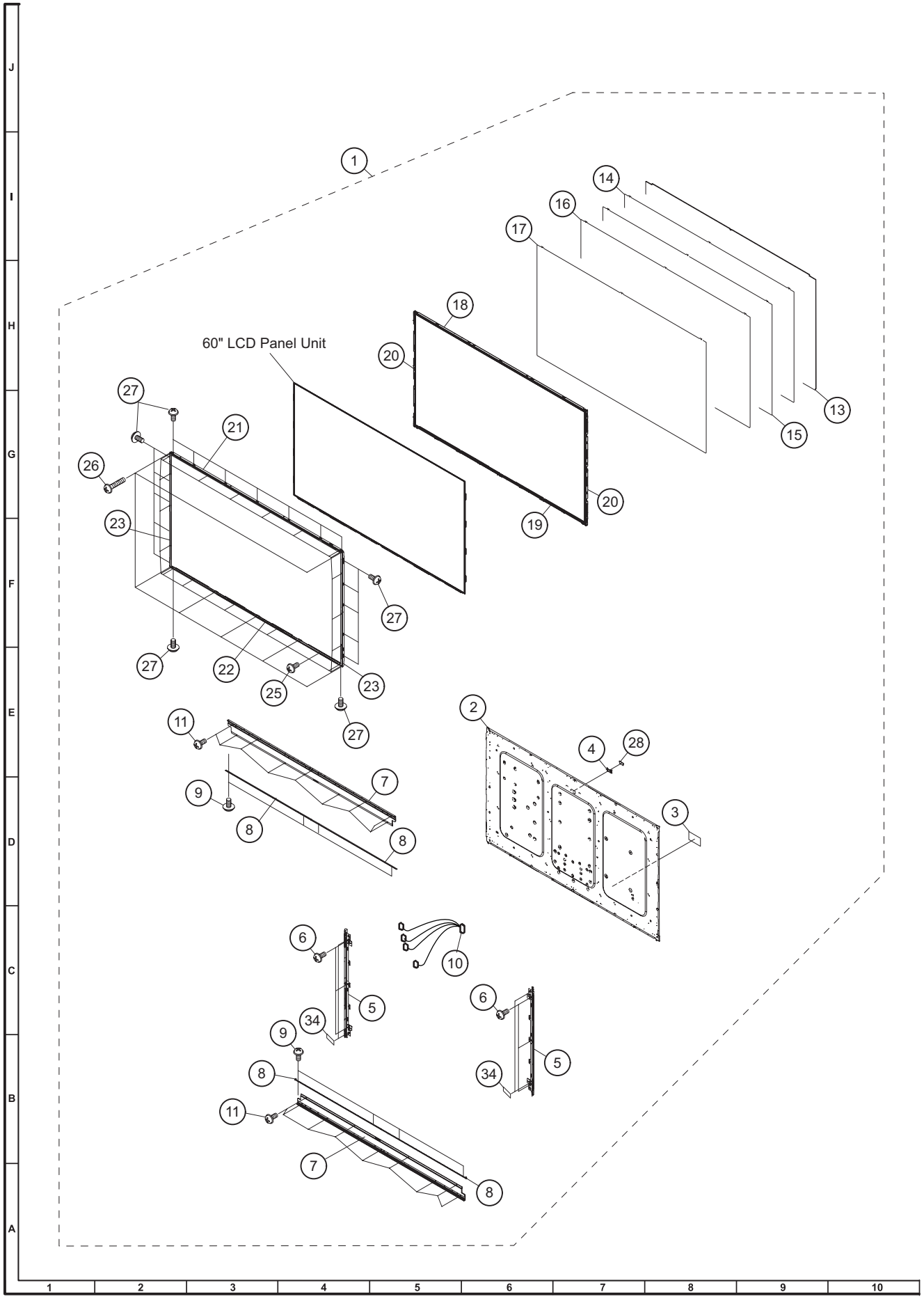
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[1] LCD PANEL MODULE UNIT (LC-52LE830E/RU/E[B}/RU[B],831E/S/E[B]/S[B],833E/E[B])



NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[1] LCD PANEL MODULE UNIT (LC-52LE830E/RU/E[B}/RU[B],831E/S/E[B]/S[B],833E/E[B])					
1	R1LK520D3GW40P		N	P	52" LCD Panel Module Unit (LK520D3GW40P) (LC-52LE830E/RU,831E/S,833E)
1	R1LK520D3GW4BY		N	P	52" LCD Panel Module Unit (LK520D3GW4BY) (LC-52LE830E[B}/RU[B],831E[B]/S[B],833E[B])
2	CCHSM0331TP03			J	BL Chassis
3	PCOVP2986TPZZ	AB		J	Fit Cover (Base)
4	ZLABL2018TPZZ	AD		J	BL Label
5	CHLDZ4800TP02	AP		J	Holder Unit, x2
6	LX-BZ2568TPZZ	AA		J	Screw, x10
7	RUNTK4831TPZZ	BD		J	LED PWB, x4 (LC-52LE830E/RU,831E/S,833E)
7	RUNTK4989TPZZ	BC		J	LED PWB, x4 (LC-52LE830E[B}/RU[B],831E[B]/S[B],833E[B])
8	CANGT0342TP01	BA		J	Installation Angle, x2
9	LX-HZ2417TPZZ	AA		J	Screw, x48
10	QCNWN2672TPZZ	AR		J	LED PWB Connection Harness
11	LX-HZ2414TPZZ	AA		J	Screw, x28
13	PCOVP2989TPZZ	AB		J	Fit Cover (Cap)
14	PREFL3360TPZZ	AX		J	Reflection Sheet
15	PLGPA0787TPZZ	BN		J	Light Guide Plate
16	PSLDK3608TPZZ	BB		J	Micro Lens Sheet
17	POFMA1278TPZZ	AY		J	Lens Sheet
18	POFMD0618TPZZ	BQ		J	DBEF Sheet
19	CHLDZ4796TP09			J	P-Chassis Unit (Top)
20	CHLDZ4797TP05			J	P-Chassis Unit (Bottom)
21	CHLDZ4798TP01	AL		J	P-Chassis Unit (Left/Right), x2
22	CANGK4934TP05			J	Bezel Unit (Top)
23	CANGK4935TP0C			J	Bezel Unit (Bottom)
24	CANGK4936TP06			J	Bezel Unit (Left)
25	CANGK4937TP06			J	Bezel Unit (Right)
26	LX-UZ2067TPZZ	AB		J	Screw, x21
27	LX-BZ2568TPZZ	AA		J	Screw, x19
28	LX-BZ2574TPZZ	AA		J	Screw, x5

[2] LCD PANEL MODULE UNIT (LC-60LE830E/RU/E[B]/RU[B],831E/S/E[B]/S[B],833E/E[B]/60LE635E/RU,636E/S,638E)



NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[2] LCD PANEL MODULE UNIT (LC-60LE830E/RU/E[B]/RU[B],831E/S/E[B]/S[B],833E/E[B]/60LE635E/RU,636E/S,638E)					
1	R1LK600D3GW40H		N	P	60" LCD Panel Module Unit (LK600D3GW40H) (LC-60LE830E/RU,831E/S,833E)
1	R1LK600D3GW4BH		N	P	60" LCD Panel Module Unit (LK600D3GW4BH) (LC-60LE830E[B]/RU[B],831E[B]/S[B],833E[B])
1	R1LK600D3GW7CH		N	P	60" LCD Panel Module Unit (LK600D3GW7CH) (LC-60LE635E/RU,636E/S,638E)
2	CCHSM0132TP01	BS		J	BL Chassis
3	ZLABL2018TPZZ	AD		J	BL Label
4	PCOVP2986TPZZ	AB		J	Fit Cover (Base)
5	CHLDZ4605TP01	AT		J	Holder Unit, x2
6	LX-HZ2414TPZZ	AA		J	Screw, x6
7	CANGT0136TP01	BC		J	Installation Angle, x2
8	RUNTK4830TPZZ	BG		J	LED PWB , x4 (LC-60LE830E/RU,831E/S,833E)
8	RUNTK5028TPZZ	BD		J	LED PWB , x4 (LC-60LE830E[B]/RU[B],831E[B]/S[B],833E[B])
8	RUNTK5032TPZZ	BH		J	LED PWB , x4 (LC-60LE635E/RU,636E/S,638E)
9	LX-HZ2417TPZZ	AA		J	Screw, x8
10	QCNWN2671TPZZ	AR		J	LED PWB Connection Harness
11	LX-HZ2414TPZZ	AA		J	Screw, x18
13	PREFL3387TPZZ			J	Reflection Sheet
14	PLGPA0786TPZZ	BR		J	Light Guide Plate
15	PSLDK3607TPZZ	BF		J	Micro Lens Sheet
16	POFMA1279TPZZ	BA		J	Lens Sheet
17	POFMD0649TPZZ	BS		J	DBEF Sheet (LC-60LE830E/RU/E[B]/RU[B],831E/S/E[B]/S[B],833E/E[B])
17	PSLDK3521TPZZ	BF		J	Diffusion Sheet (LC-60LE635E/RU,636E/S,638E)
18	CHLDZ4601TP0A			J	P-Chassis Unit (Top) (LC-60LE830E/RU/E[B]/RU[B],831E/S/E[B]/S[B],833E/E[B])
18	CHLDZ4601TP09			J	P-Chassis Unit (Top) (LC-60LE635E/RU,636E/S,638E)
19	CHLDZ4602TP0D			J	P-Chassis Unit (Bottom) (LC-60LE830E/RU/E[B]/RU[B],831E/S/E[B]/S[B],833E/E[B])
19	CHLDZ4602TP0C			J	P-Chassis Unit (Bottom) (LC-60LE635E/RU,636E/S,638E)
20	CHLDZ4603TP02	AQ		J	P-Chassis Unit (Left/Right), x2 (LC-60LE830E/RU/E[B]/RU[B],831E/S/E[B]/S[B],833E/E[B])
20	CHLDZ4603TP03	AW		J	P-Chassis Unit (Left/Right), x2 (LC-60LE635E/RU,636E/S,638E)
21	CANGK4749TP03			J	Bezel Unit (Top) (LC-60LE830E/RU/E[B]/RU[B],831E/S/E[B]/S[B],833E/E[B])
21	CANGK4748TP03	AS		J	Bezel Unit (Top) (LC-60LE635E/RU,636E/S,638E)
22	CANGK4749TP0A			J	Bezel Unit (Bottom) (LC-60LE830E/RU/E[B]/RU[B],831E/S/E[B]/S[B],833E/E[B])
22	CANGK4749TP09	AX		J	Bezel Unit (Bottom) (LC-60LE635E/RU,636E/S,638E)
23	CANGK4749TP03			J	Bezel Unit (Left/Right), x2 (LC-60LE830E/RU/E[B]/RU[B],831E/S/E[B]/S[B],833E/E[B])
23	CANGK4750TP03	AQ		J	Bezel Unit (Left), x2 (LC-60LE635E/RU,636E/S,638E)
23	CANGK4751TP03	AQ		J	Bezel Unit (Right), x2 (LC-60LE635E/RU,636E/S,638E)
25	LX-UZ2067TPZZ	AB		J	Screw, x22
26	LX-HZ2574TPZZ			J	Screw, x7
27	LX-HZ2568TPZZ			J	Screw, x19
28	PCOVP2989TPZZ	AB		J	Fit Cover (Cap)
34	PSPAG1054TPZZ			J	Spacer, x4

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Nov. 2011
SH. DS

SHARP CORPORATION
AV Systems Group
CS Promotion Center
Yaita,Tochigi 329-2193, Japan

SHARP SERVICE MANUAL

No. S81T452LE830E

LCD COLOUR TELEVISION

PWB Unit Edition

MODELS
LC-52/60LE830E/RU/E[B]/RU[B]
LC-52/60LE831E/S/E[B]/S[B]
LC-52/60LE833E/E[B]

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

CONTENTS

OUTLINE

CHAPTER 1. PRINTED WIRING BOARD ASSEMBLIES
[1] MAIN Unit..... 1-1
[2] R/C OPC Unit..... 1-5
[3] ICON Unit..... 1-6

CHAPTER 2. SCHEMATIC DIAGRAM
[1] DESCRIPTION OF SCHEMATIC DIAGRAM.....2-1
[2] SCHEMATIC DIAGRAM.....2-2

Parts Guide

Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

SHARP CORPORATION

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The contents are subject to change without notice.

OUTLINE

- **We inform you that service parts in the PWB Unit.**

Unit

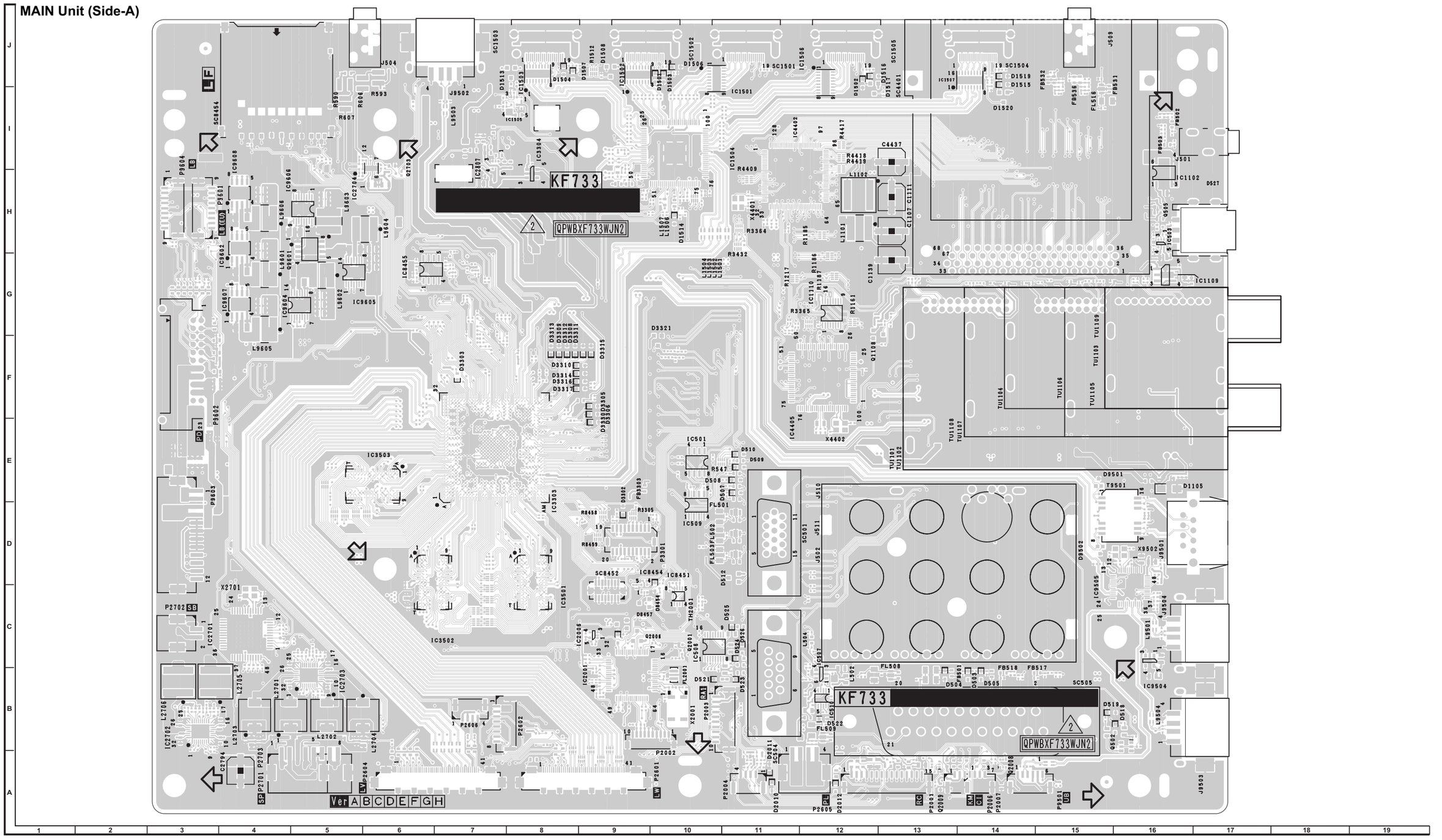
Model Name	Unit Name	Description
LC-52LE830E, RU LC-60LE830E, RU	DKEYDF733FM51	MAIN Unit
LC-52LE831E, S LC-60LE831E, S	DKEYDF733FM52	MAIN Unit
LC-52LE833E LC-60LE833E	DKEYDF733FM54	MAIN Unit
LC-52LE830E, RU LC-60LE830E, RU	DUNTKF494FM02	R/C OPC Unit
LC-52LE831E, S LC-60LE831E, S LC-52LE833E LC-60LE833E	DUNTKF770FM51	ICON Unit

NOTE: *1 Replace MAIN PWB Unit (DKEYDF733FM**) in case of IC8401 or IC3303 failure.

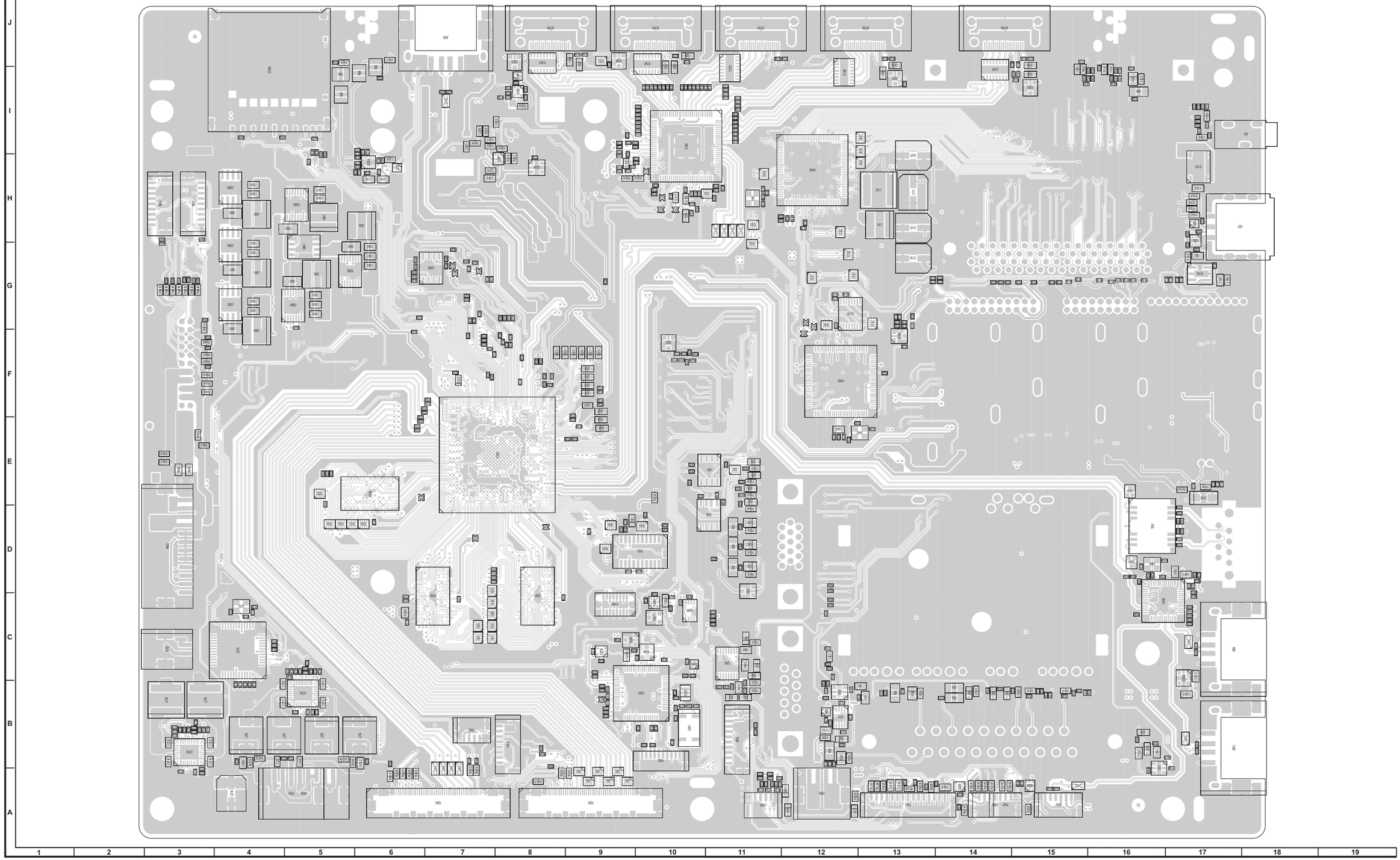
CHAPTER 1. PRINTED WIRING BOARD ASSEMBLIES

[1] MAIN Unit

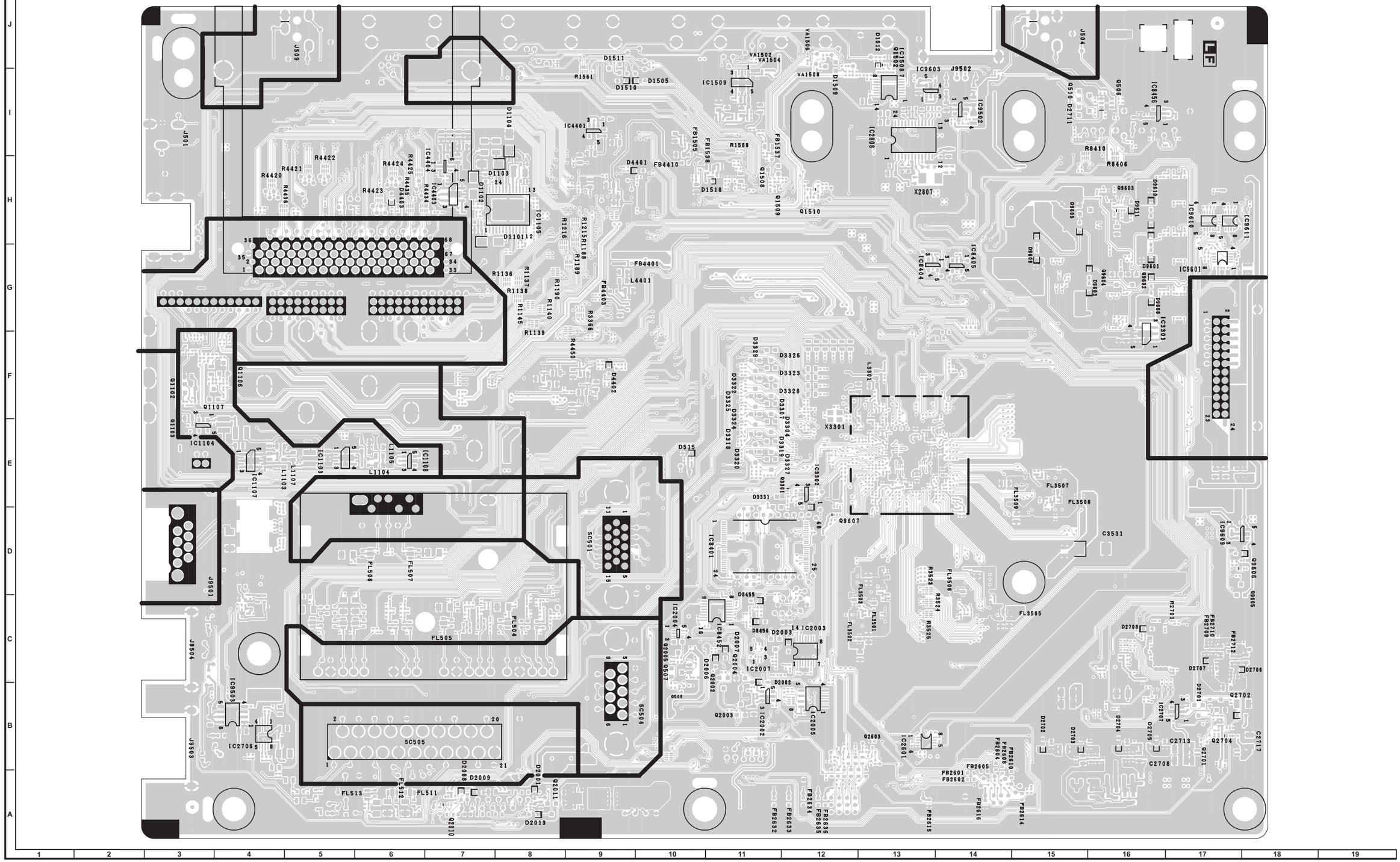
MAIN Unit (Side-A)



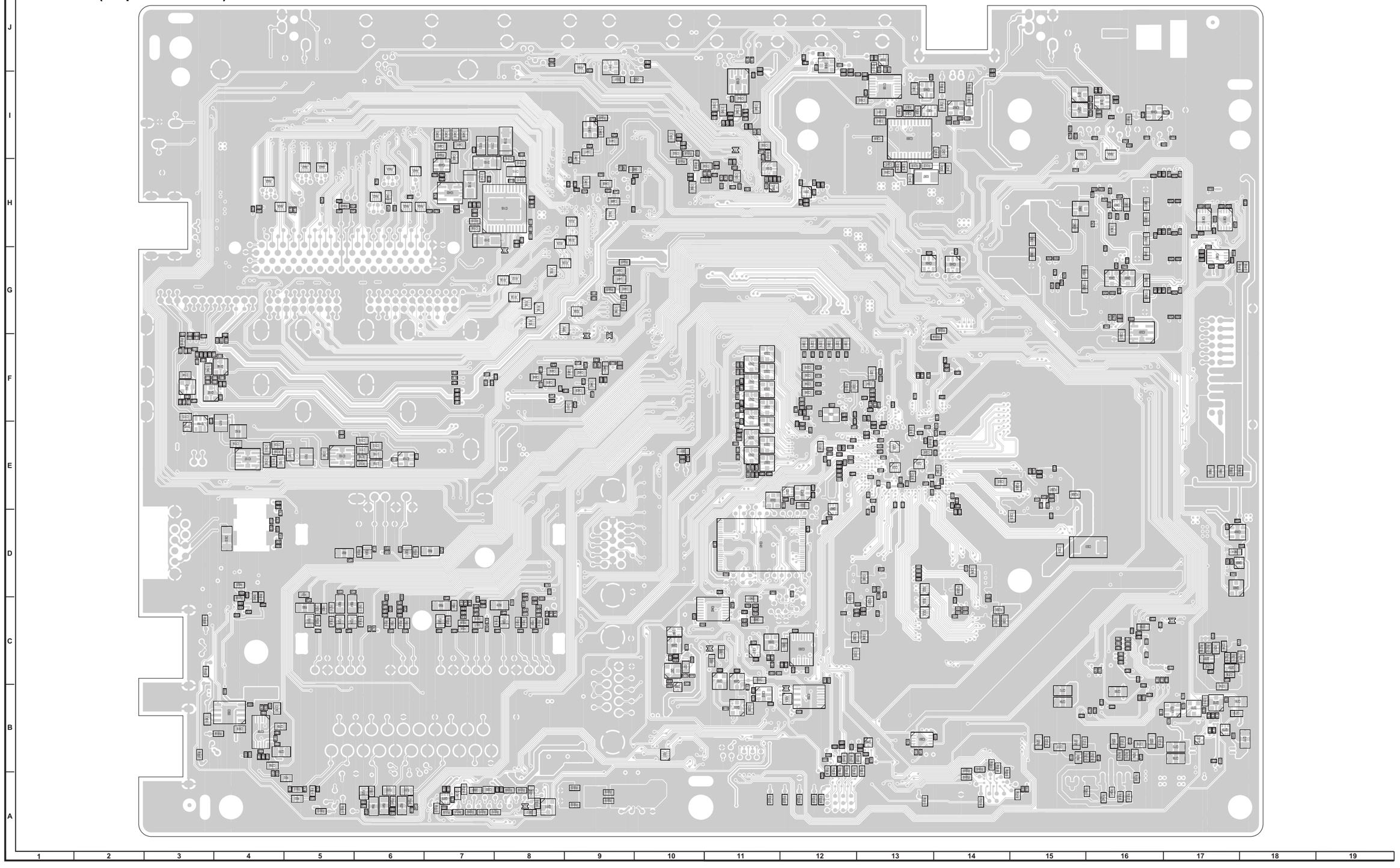
MAIN Unit (Chip Parts Side-A)



MAIN Unit (Side-B)

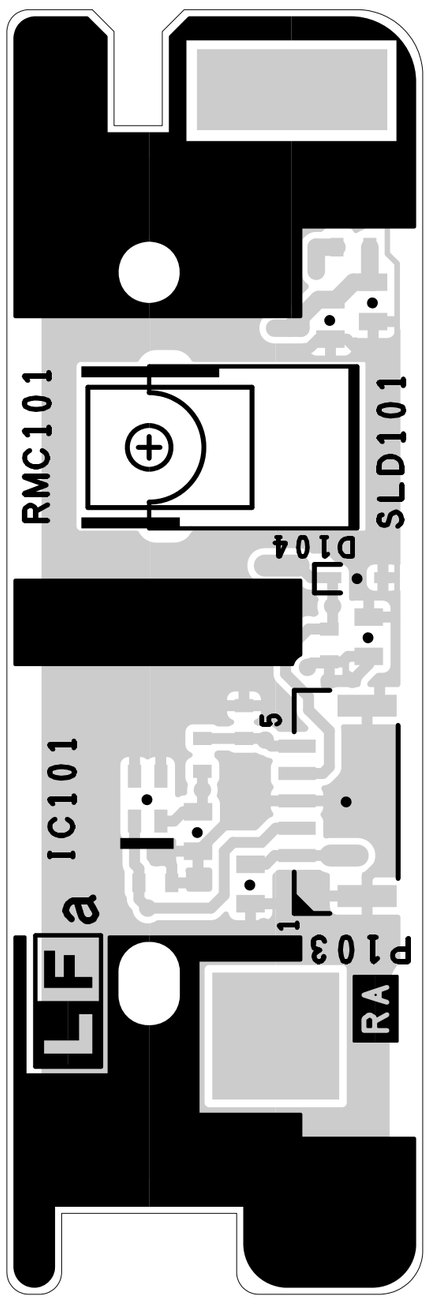


MAIN Unit (Chip Parts Side-B)

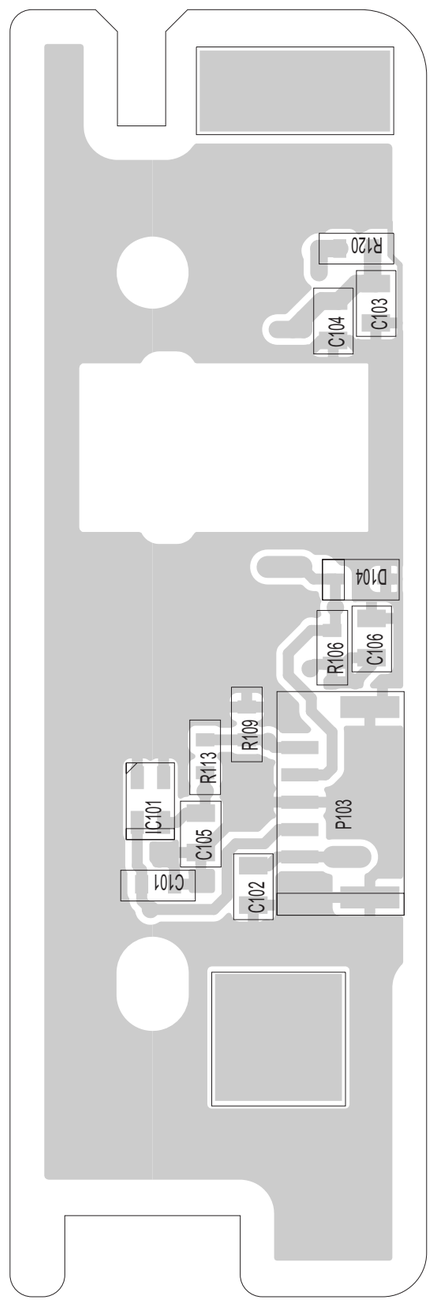


[2] R/C OPC Unit

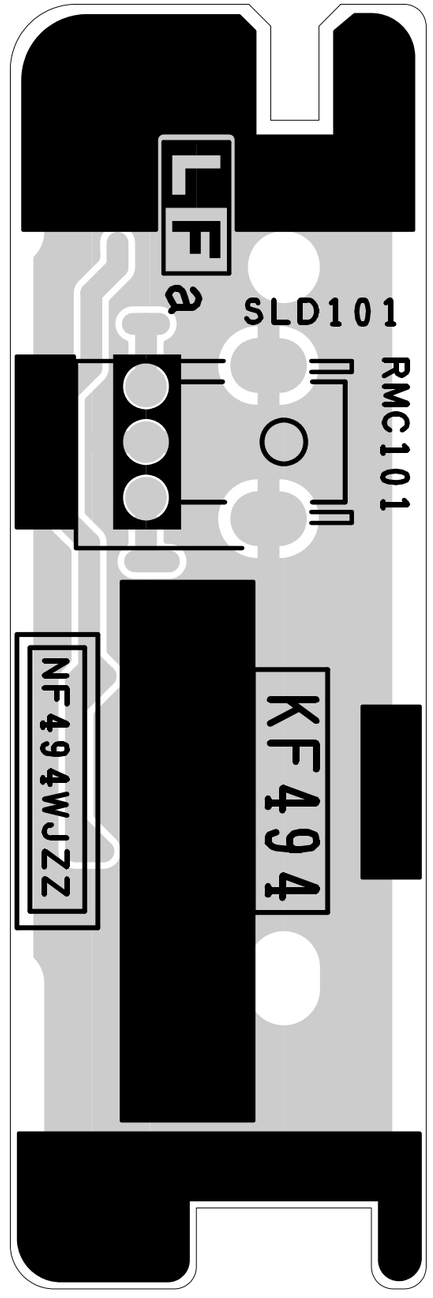
R/C OPC Unit (Side-A)



R/C OPC Unit (Chip Parts Side-A)

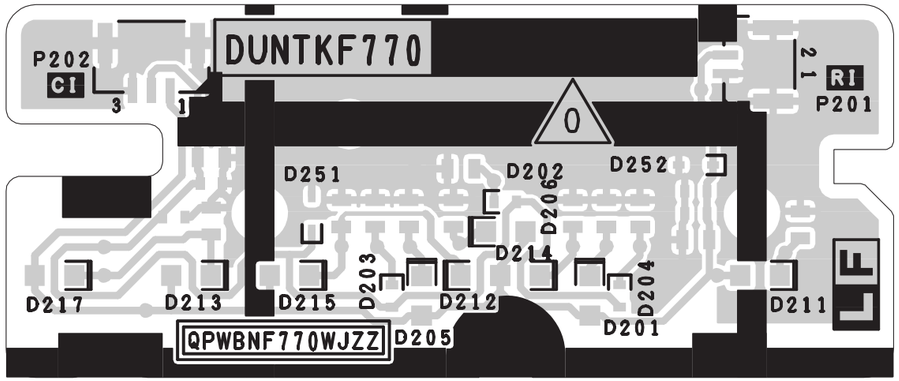


R/C OPC Unit (Side-B)

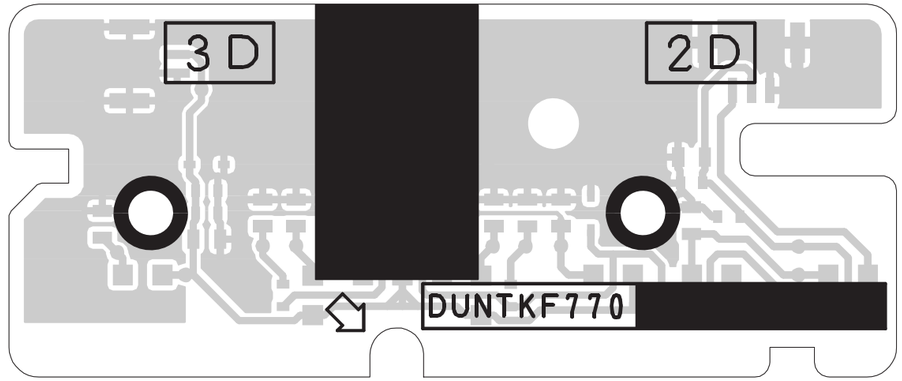


[3] ICON Unit

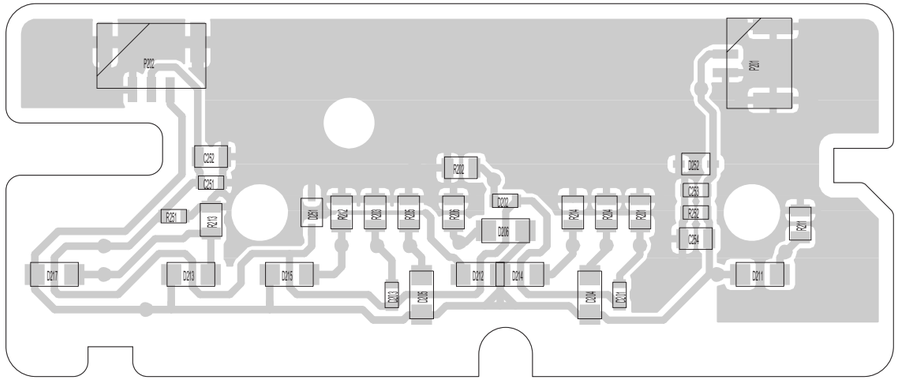
ICON Unit (Side-A)



ICON Unit (Side-B)



ICON Unit (Chip Parts Side-A)



CHAPTER 2. SCHEMATIC DIAGRAM

[1] DESCRIPTION OF SCHEMATIC DIAGRAM

1. VOLTAGE MEASUREMENT CONDITION:

1) The voltages at test points are measured on exclusive AC adaptor and the stable supply voltage of AC 220 - 240 V.
 Signals are fed by a color bar signal generator for servicing purpose and the above voltages are measured with a 20k ohm/V tester.

2. INDICATION OF RESISTOR & CAPACITOR:

RESISTOR

1) The unit of resistance "Ω" is omitted.
 (K=kΩ=1000Ω, M=MΩ).
2) All resistors are ± 5%, unless otherwise noted.
 (K= ± 10%, F= ± 1%, D= ± 0.5%)
3) All resistors are 1/16W, unless otherwise noted.

CAPACITOR

1) All capacitors are μF, unless otherwise noted.
 (P=pF=μμF).
2) All capacitors are 50V, unless otherwise noted.

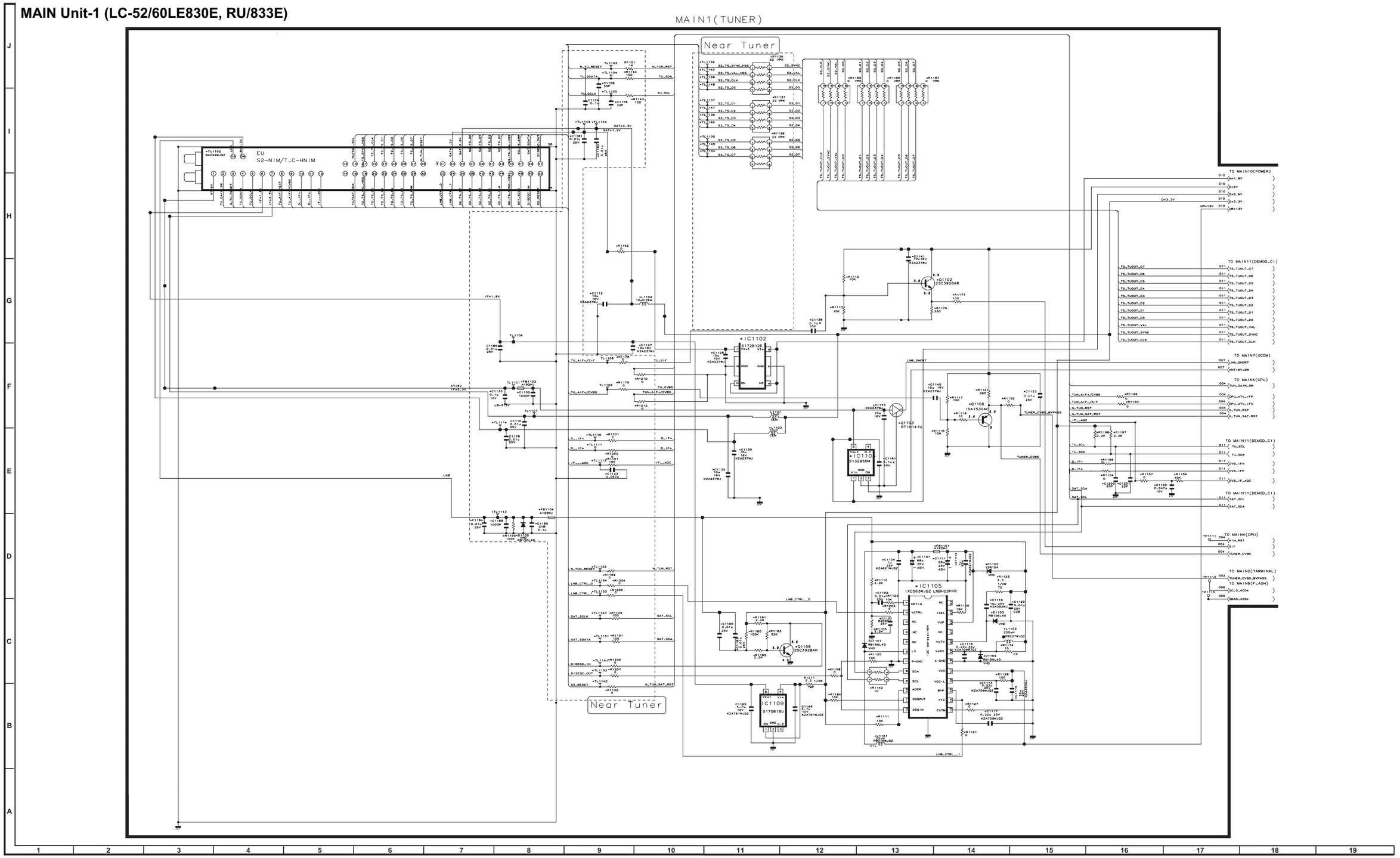
CAUTION:
This circuit diagram is original one, therefore there may be a slight difference from yours.

SAFETY NOTES:
1) DISCONNECT THE AC PLUG FROM THE AC OUTLET BEFORE REPLACING PARTS.
2) SEMICONDUCTOR HEAT SINKS SHOULD BE REGARDED AS POTENTIAL SHOCK HAZARDS WHEN THE CHASSIS IS OPERATING.

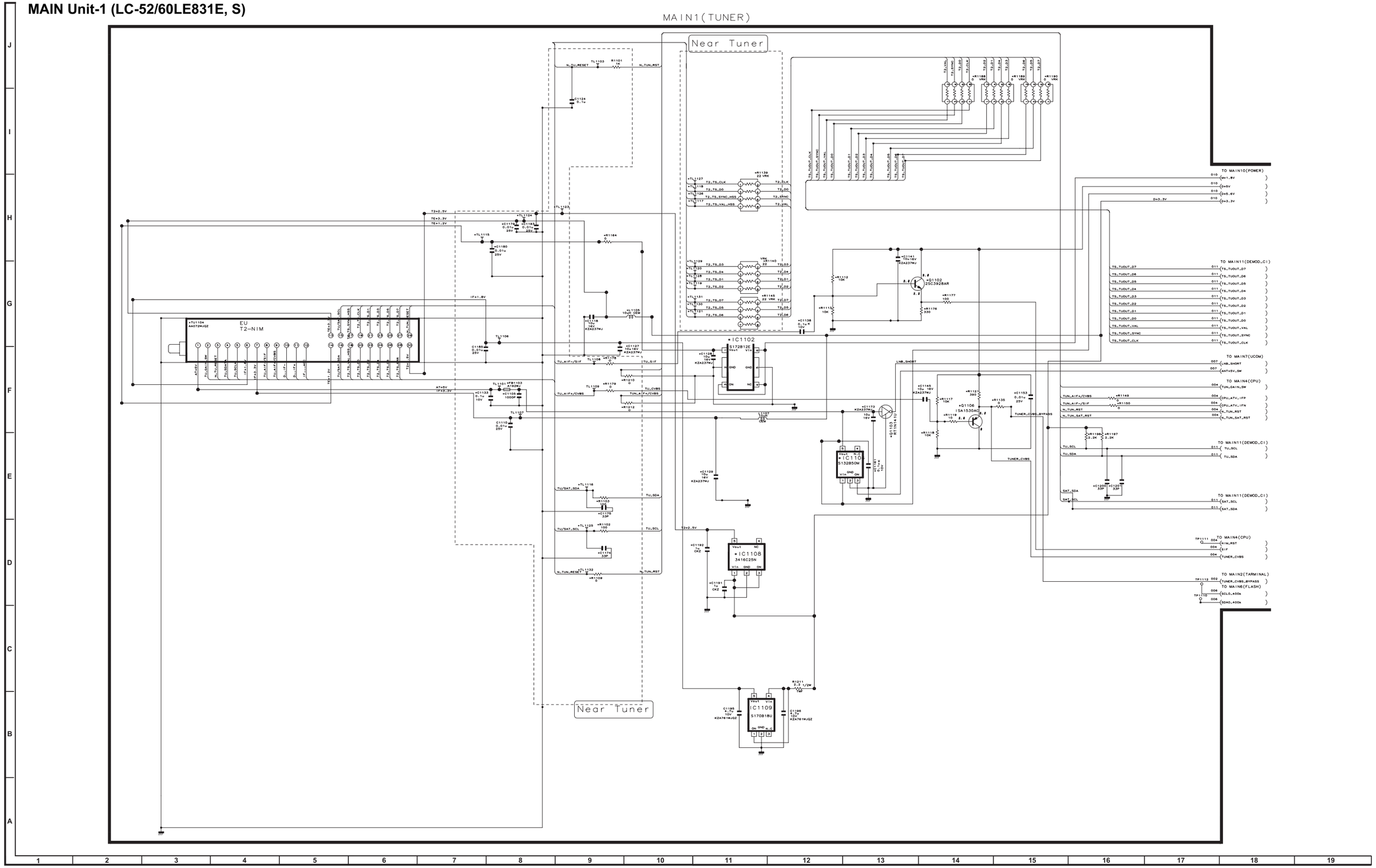
IMPORTANT SAFETY NOTICE:
PARTS MARKED WITH " ⚠ " () ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

[2] SCHEMATIC DIAGRAM

MAIN Unit-1 (LC-52/60LE830E, RU/833E)

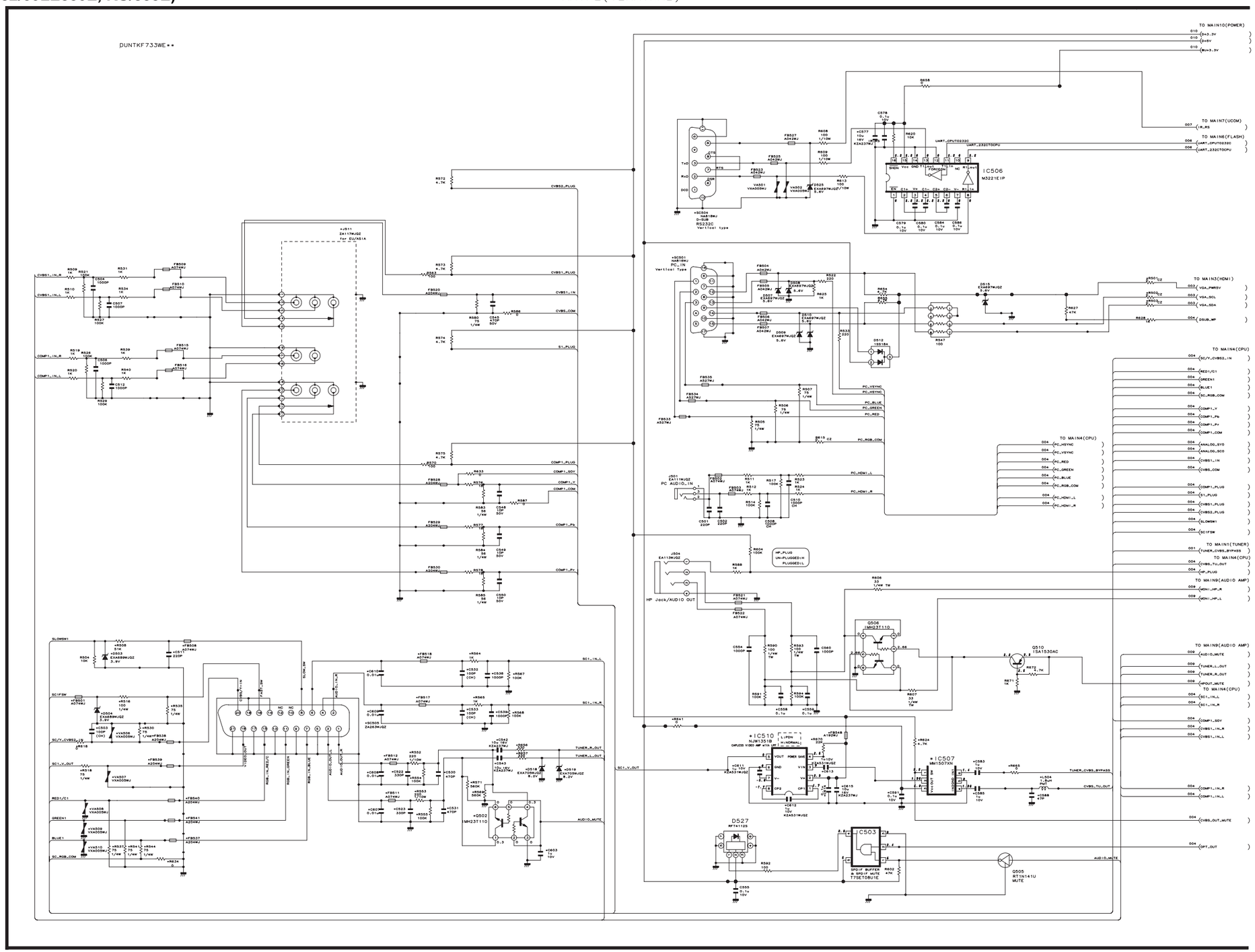


MAIN Unit-1 (LC-52/60LE831E, S)



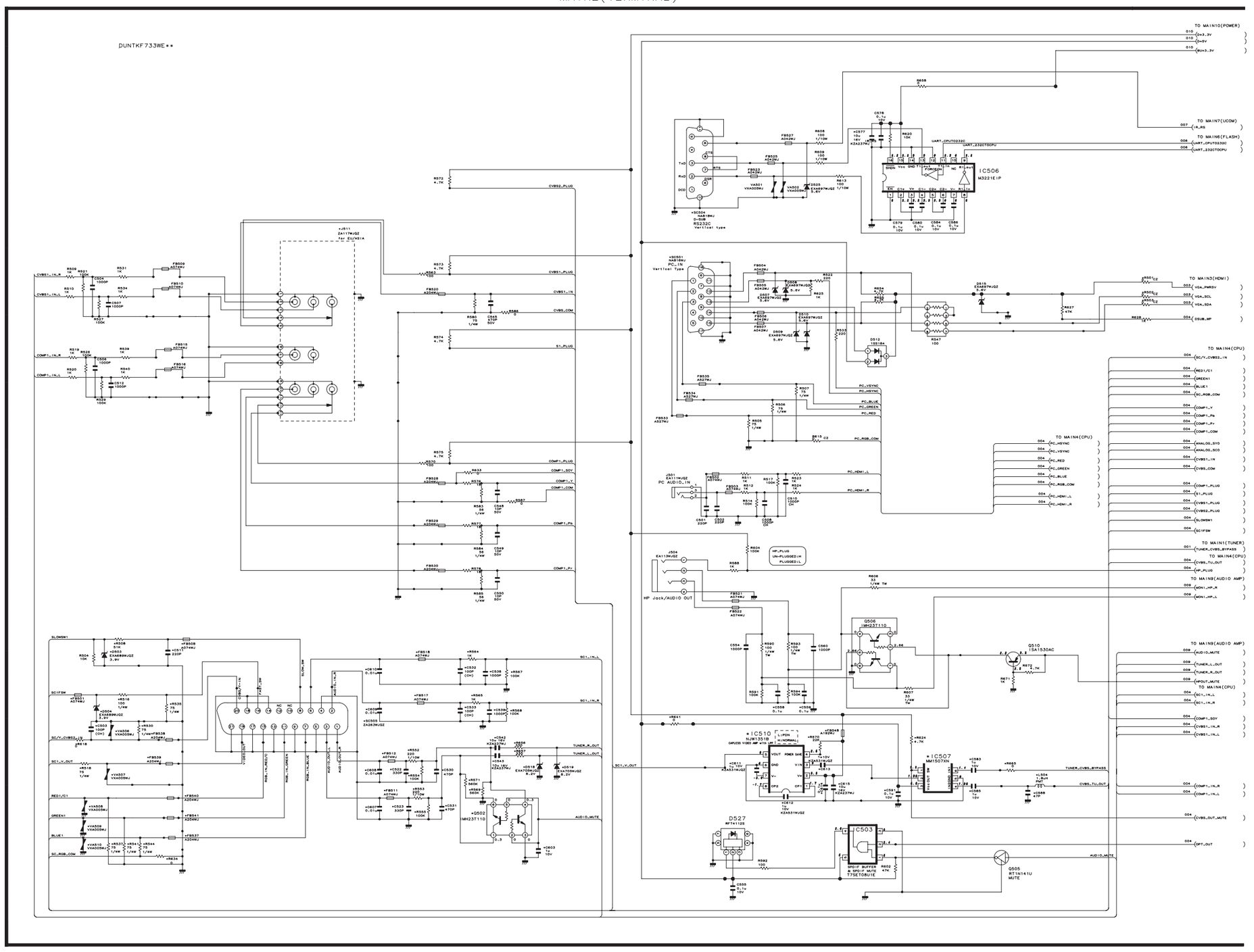
MAIN Unit-2 (LC-52/60LE830E, RU/833E)

MAIN2(TERMINAL)

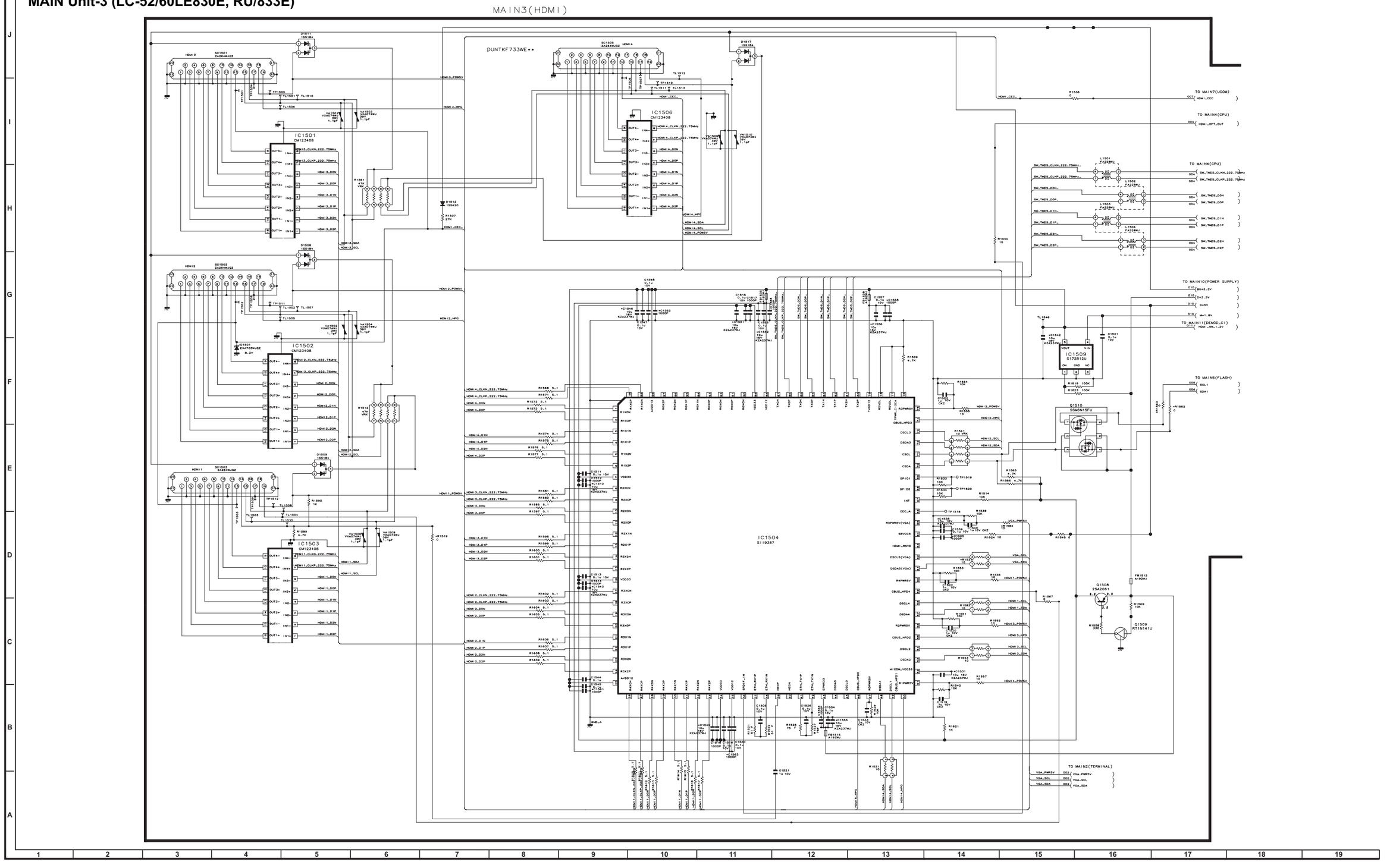


MAIN Unit-2 (LC-52/60LE831E, S)

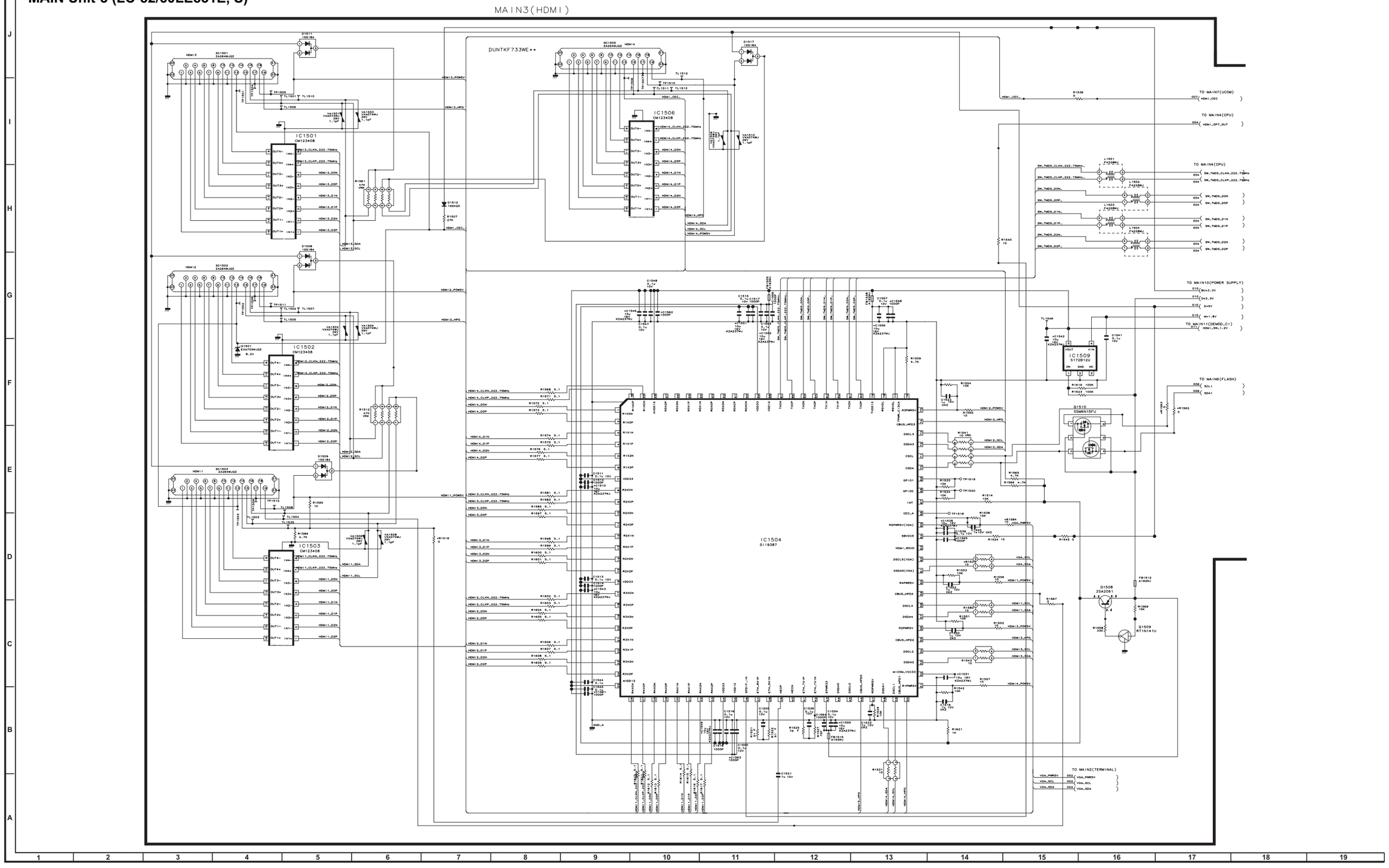
MAIN2(TERMINAL)



MAIN Unit-3 (LC-52/60LE830E, RU/833E)

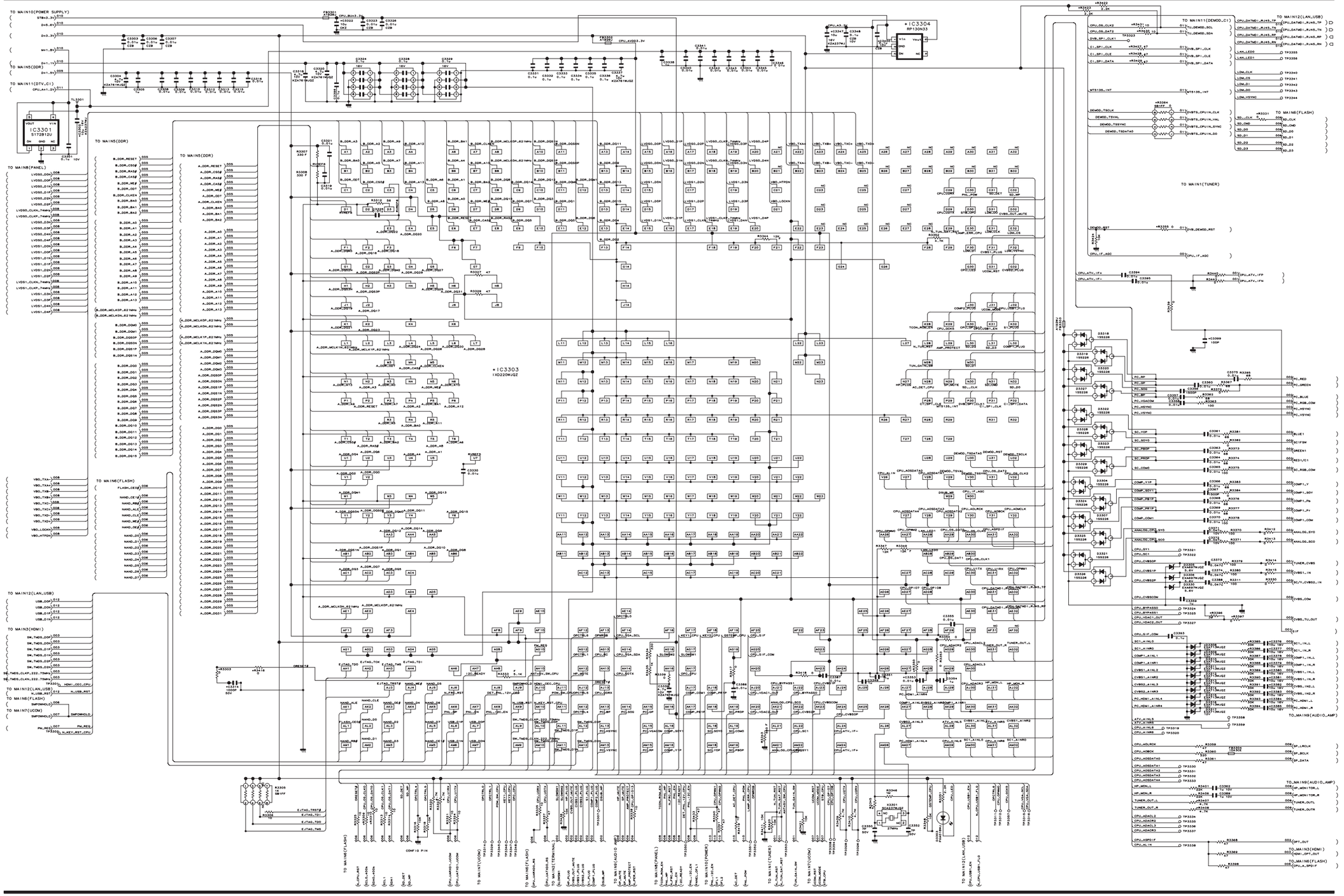


MAIN Unit-3 (LC-52/60LE831E, S)



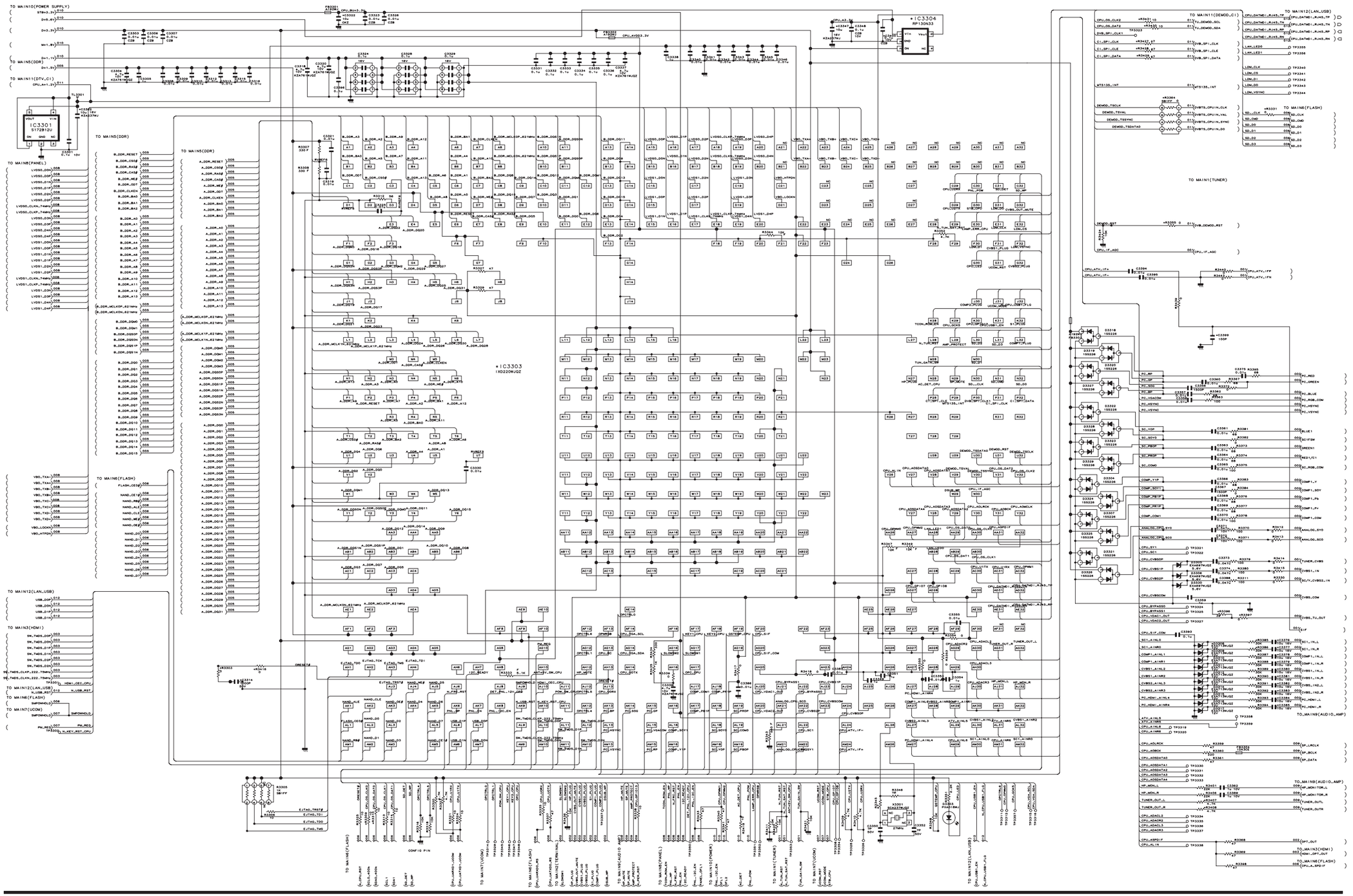
MAIN Unit-4 (LC-52/60LE830E, RU/833E)

MAIN4 (CPU)

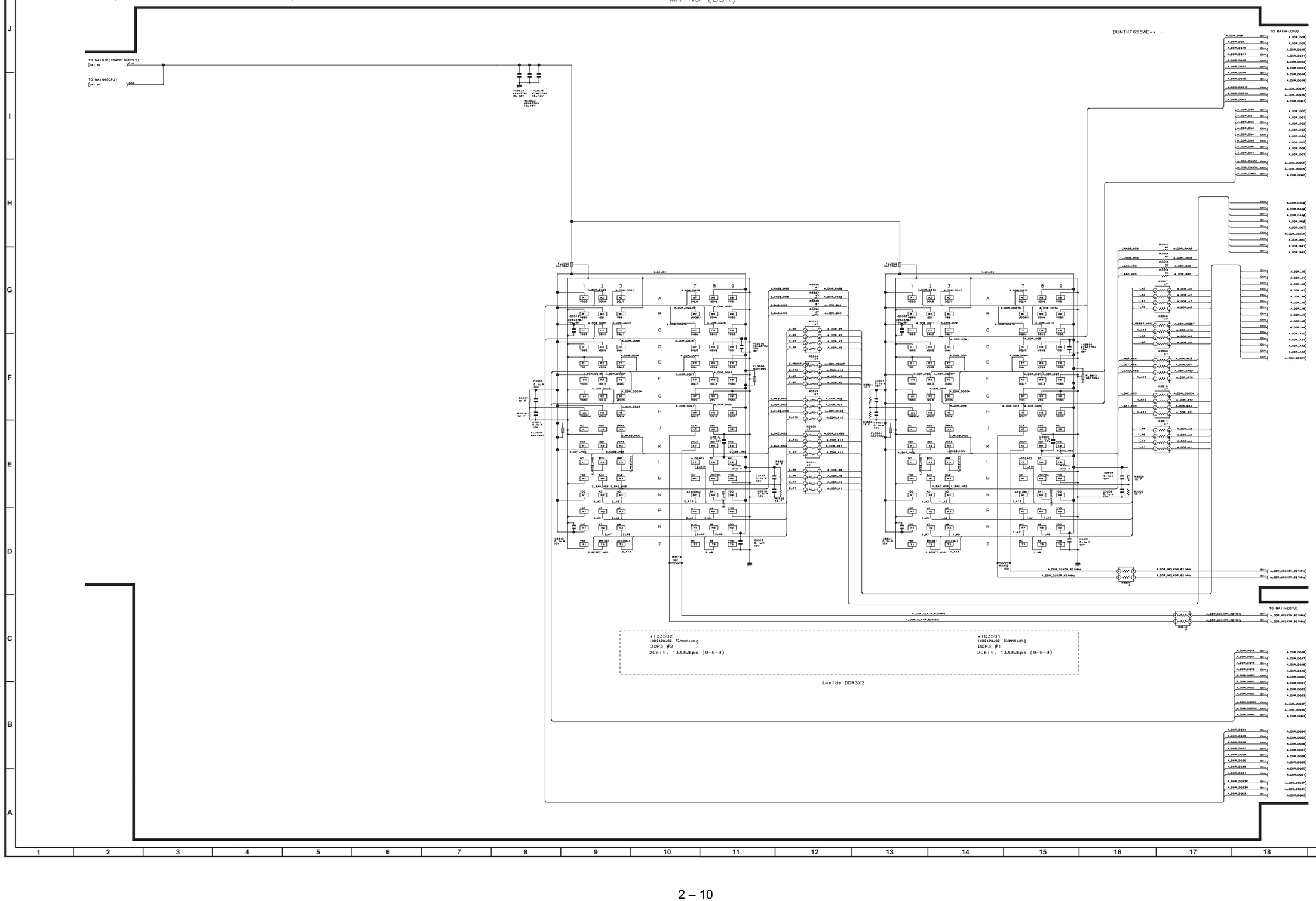


MAIN Unit-4 (LC-52/60LE831E, S)

MAIN4 (CPU)



MAIN Unit-5 (LC-52/60LE830E, RU/833E)



MAIN Unit-5 (LC-52/60LE831E, S)

MAIN5 (DDR)

TO MAIN10(POWER SUPPLY)
(5V1.8V)

TO MAIN4(CPU)
(5V1.5V)

DUNTKF655WE**

TO MAIN4(CPU)

TO MAIN4(CPU)

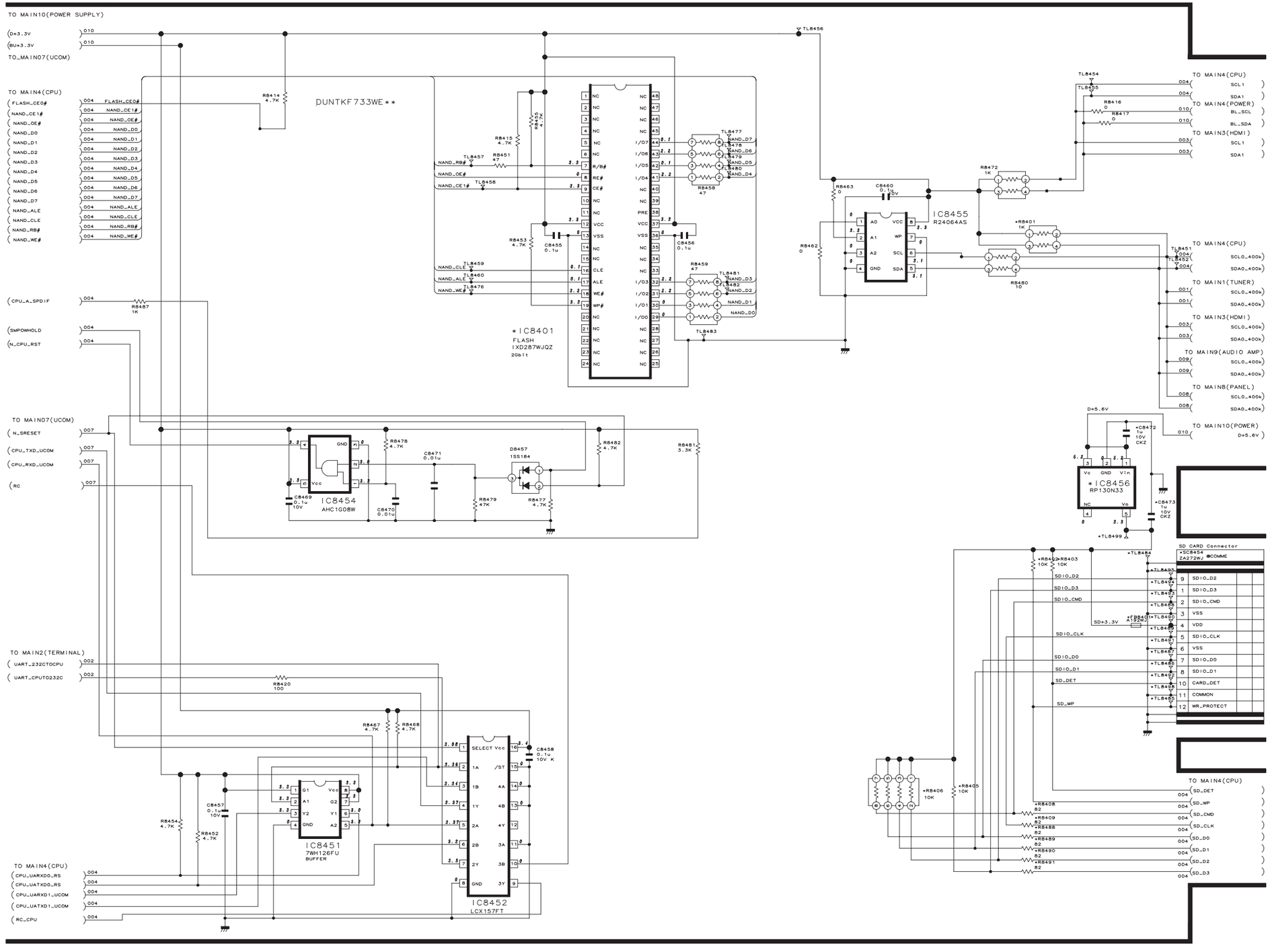
*IC3502
IXD242WJ02 Samsung
DDR3 #2
2Gbit, 1333Mbps (9-9-9)

*IC3501
IXD242WJ02 Samsung
DDR3 #1
2Gbit, 1333Mbps (9-9-9)

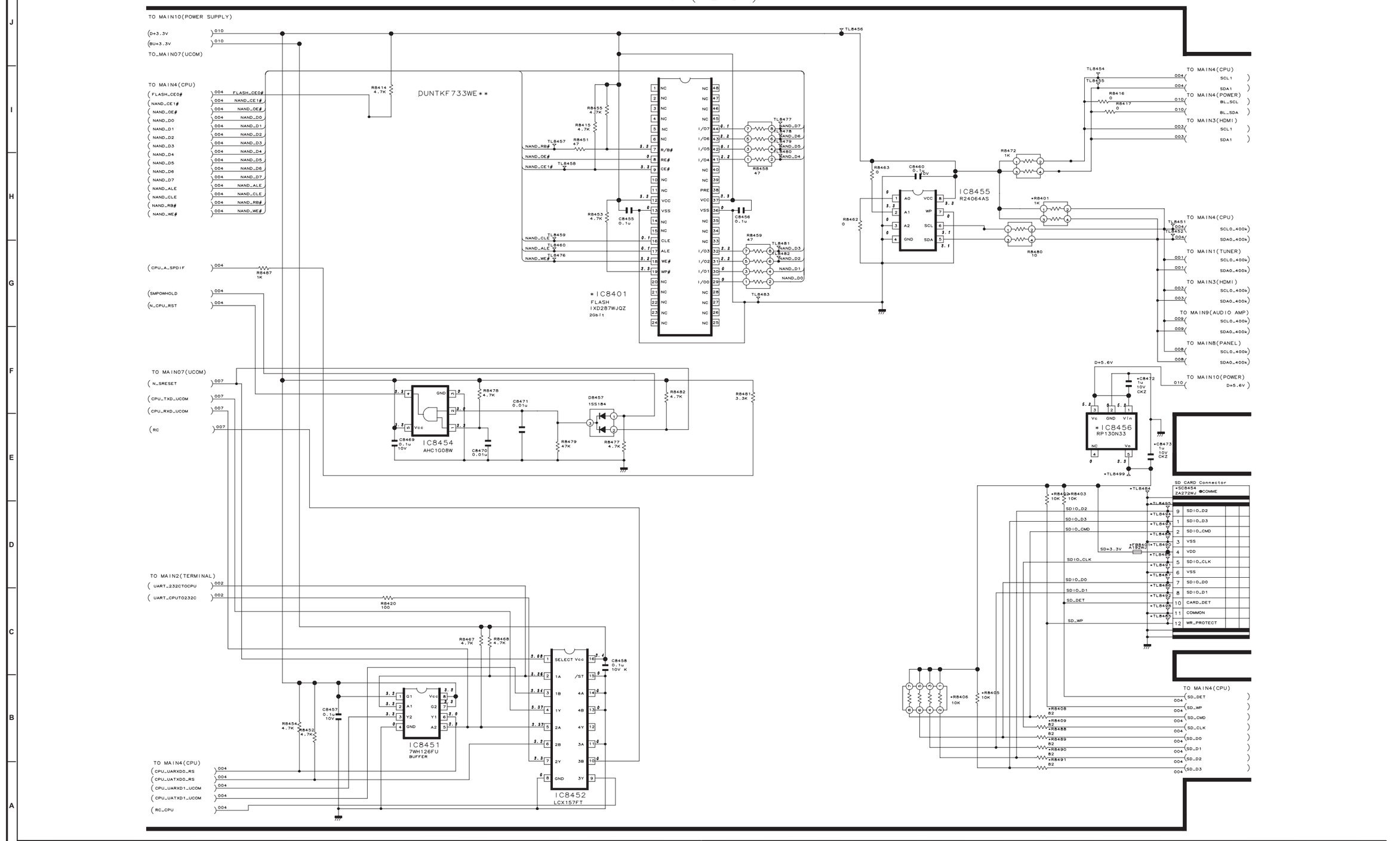
A-side DDR3X2

MAIN Unit-6 (LC-52/60LE830E, RU/833E)

MAIN6 (FLASH)

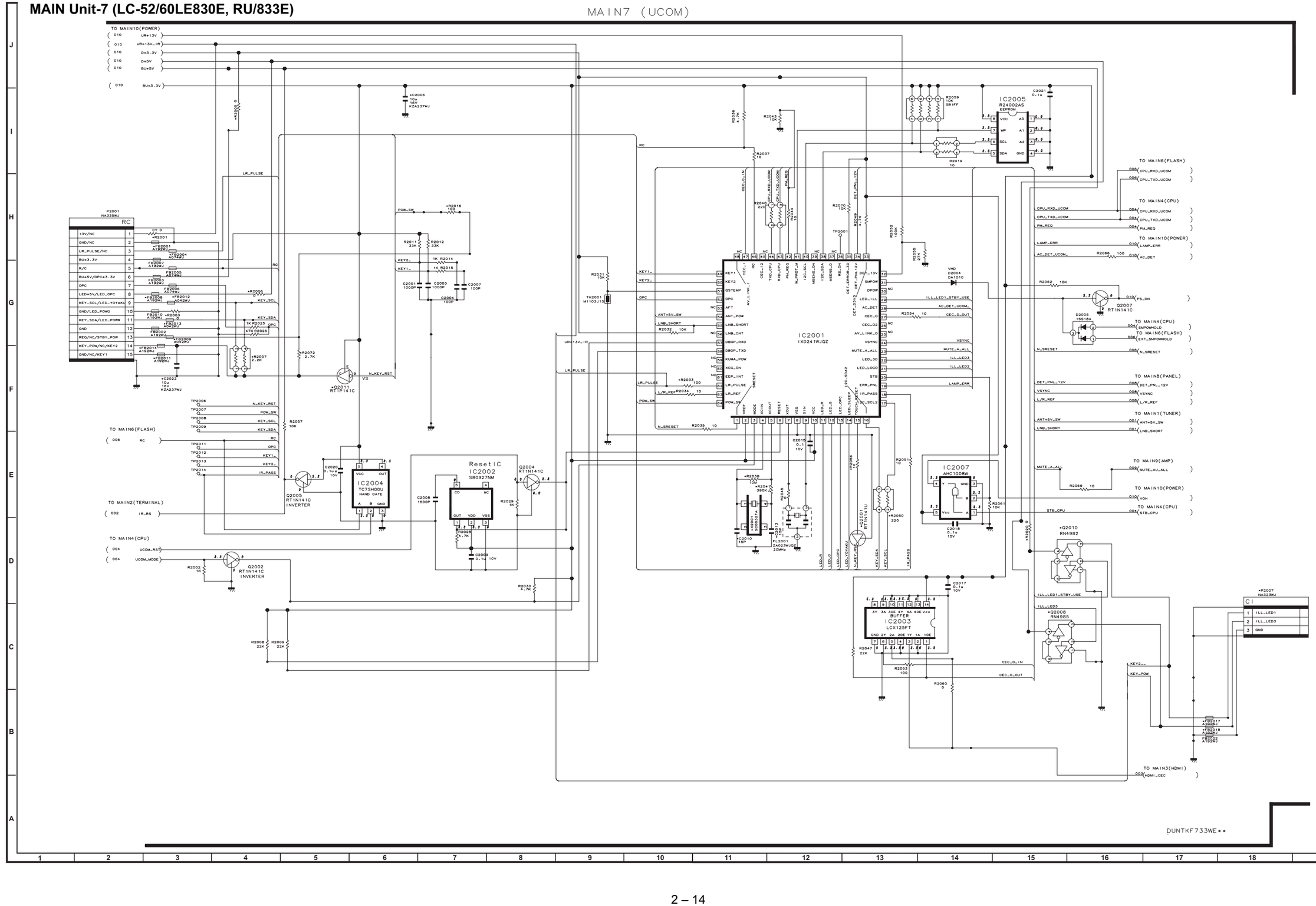


MAIN Unit-6 (LC-52/60LE831E, S)



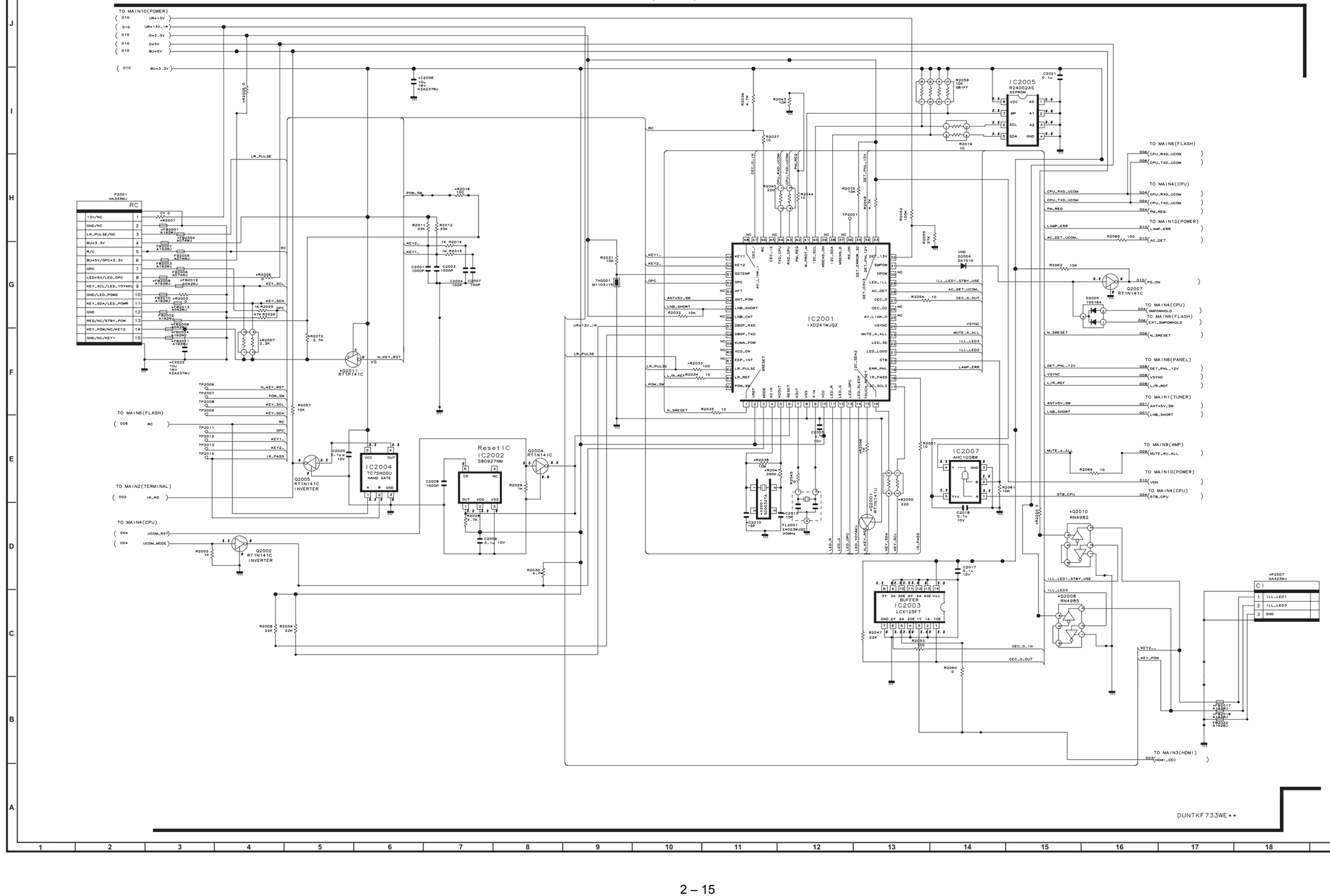
MAIN Unit-7 (LC-52/60LE830E, RU/833E)

MAIN7 (UCOM)



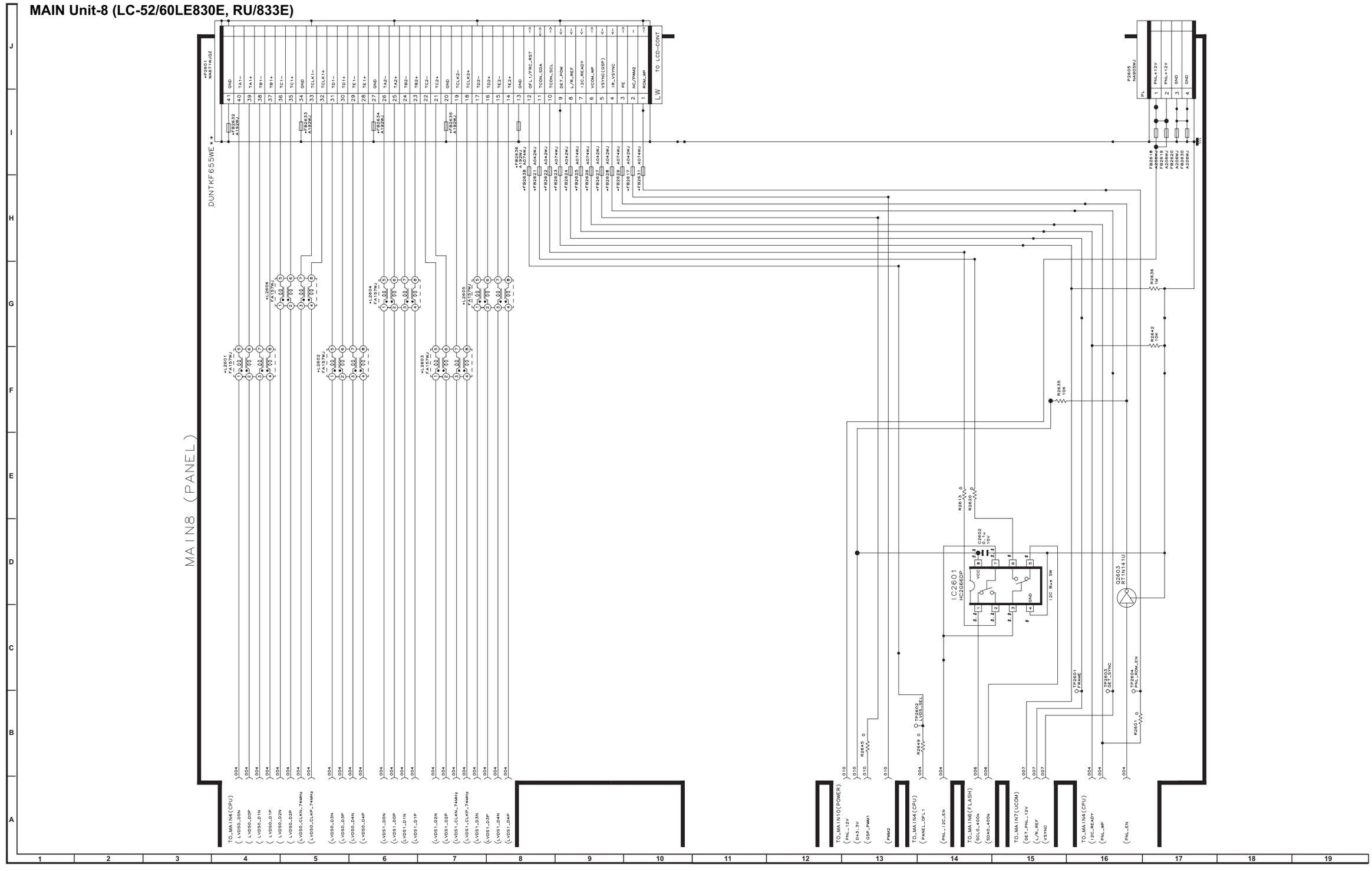
MAIN Unit-7 (LC-52/60LE831E, S)

MAIN7 (UCOM)

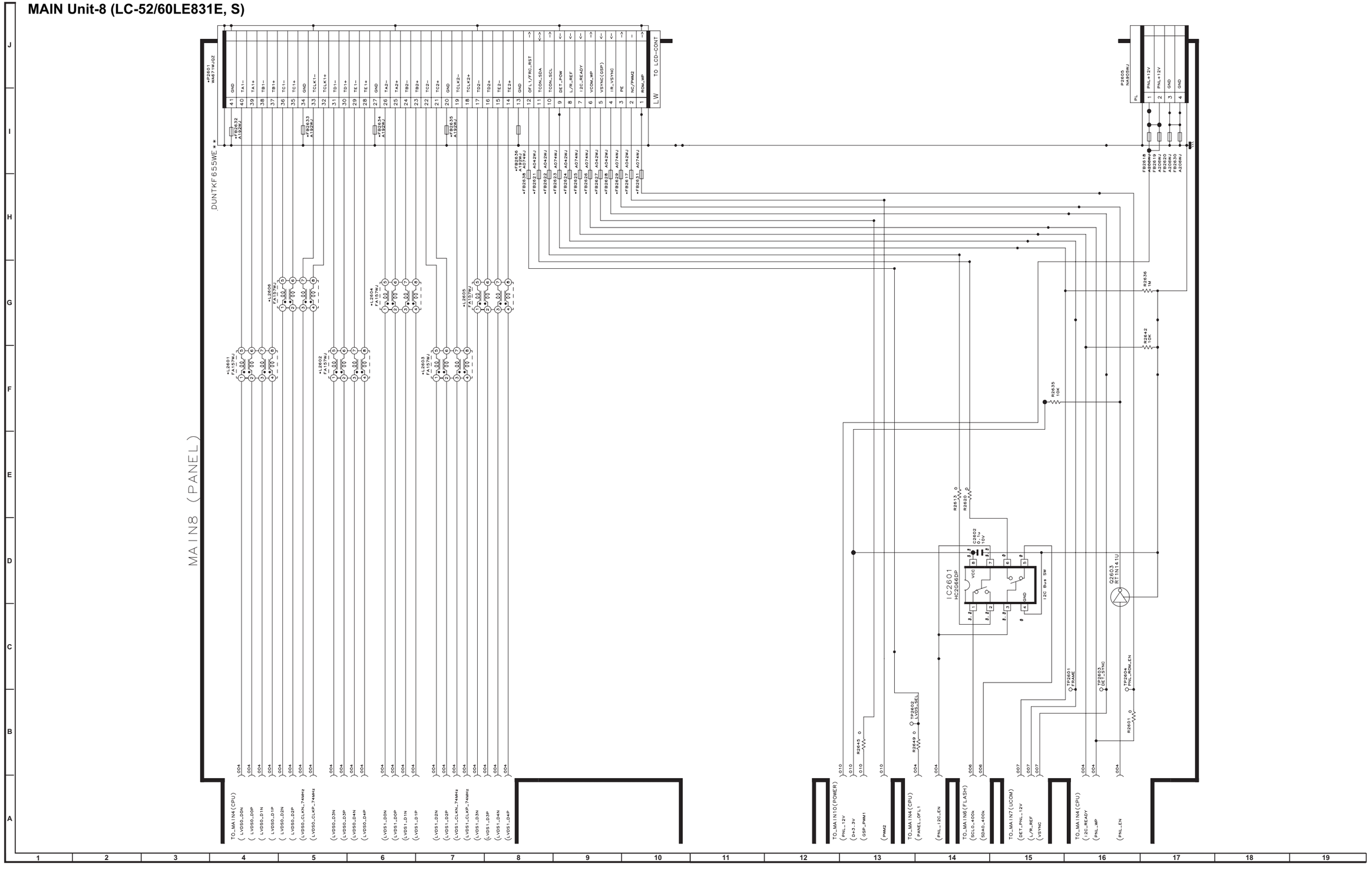


DUNTKF733WE**

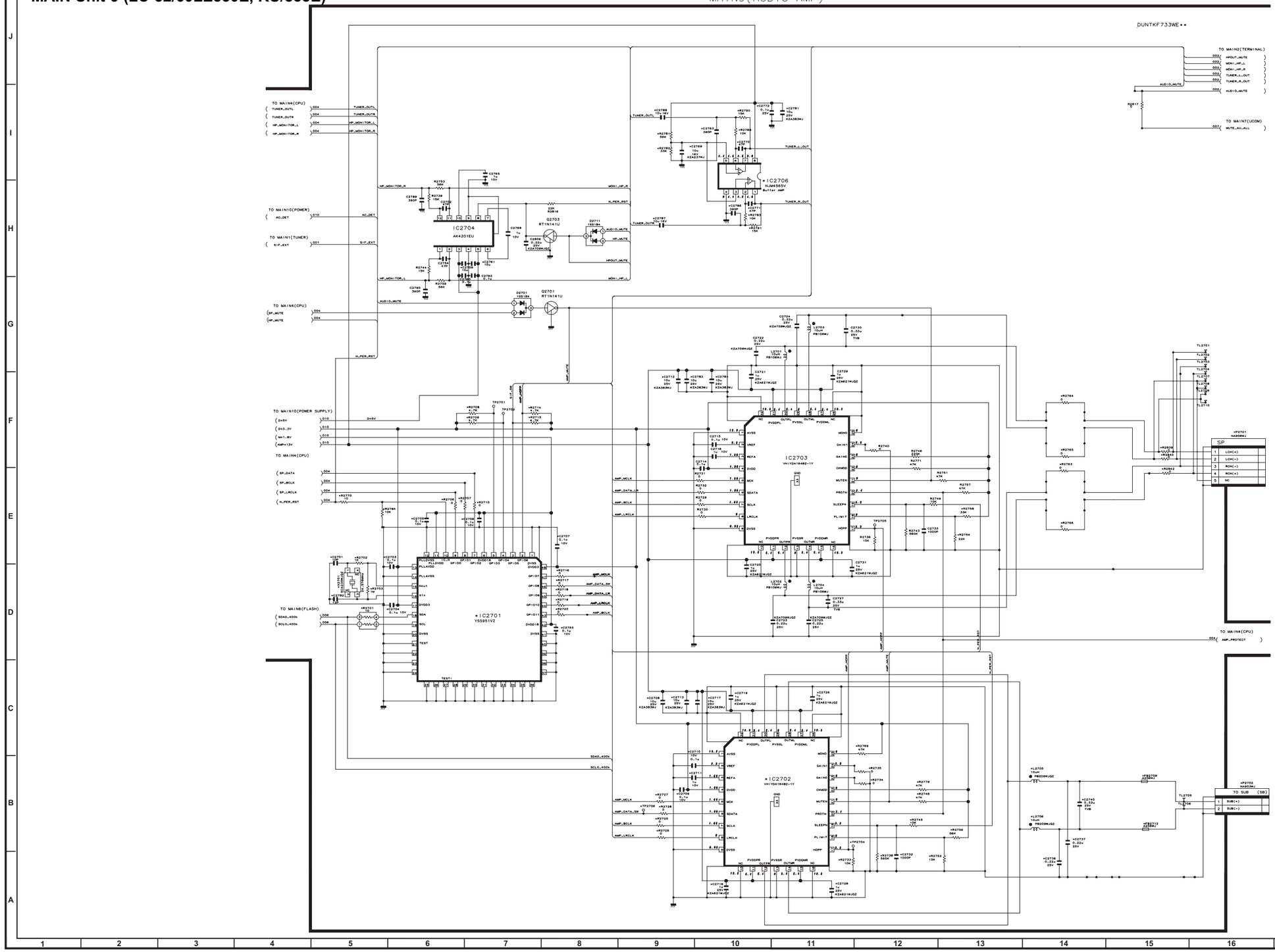
MAIN Unit-8 (LC-52/60LE830E, RU/833E)



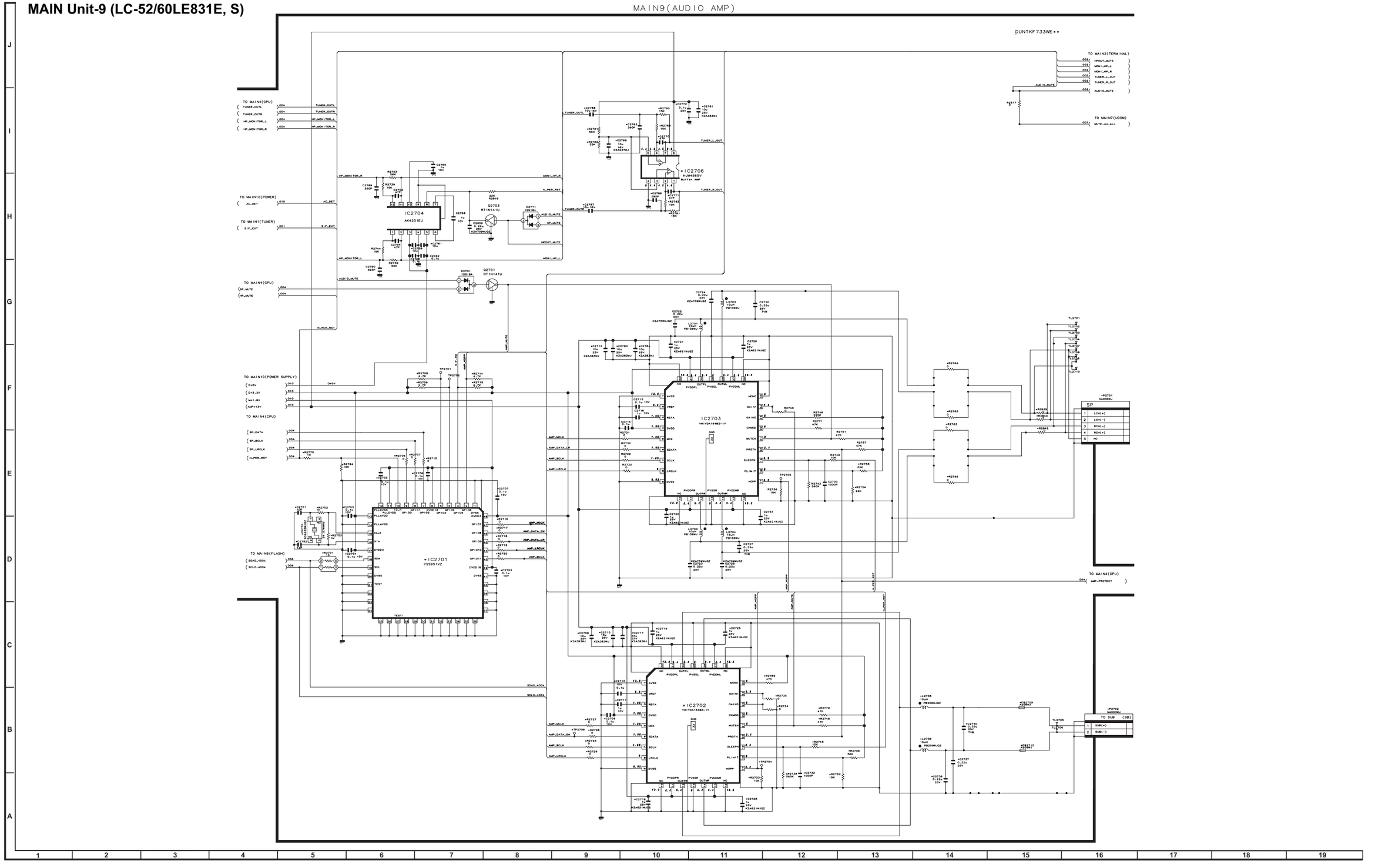
MAIN Unit-8 (LC-52/60LE831E, S)



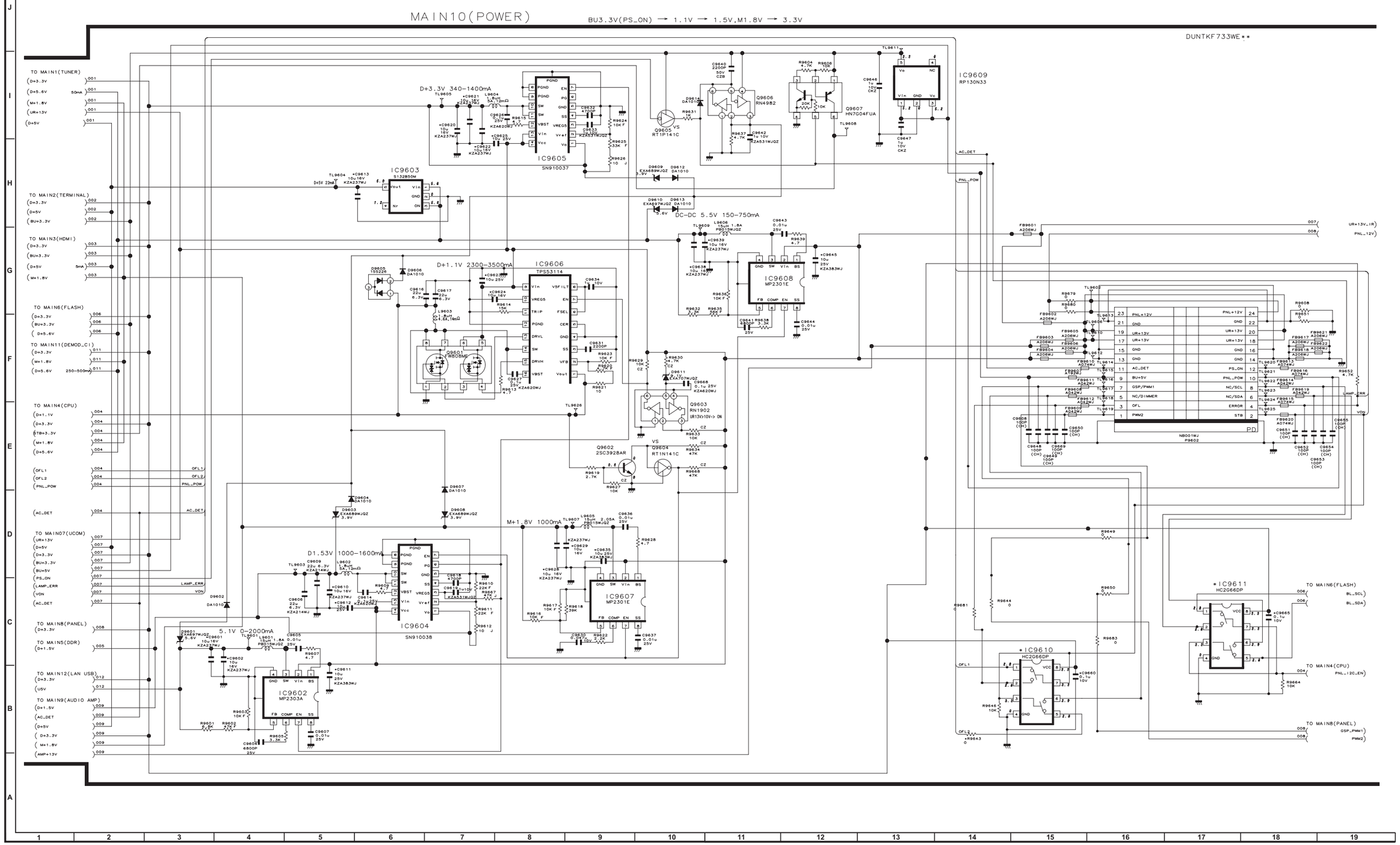
MAIN Unit-9 (LC-52/60LE830E, RU/833E)



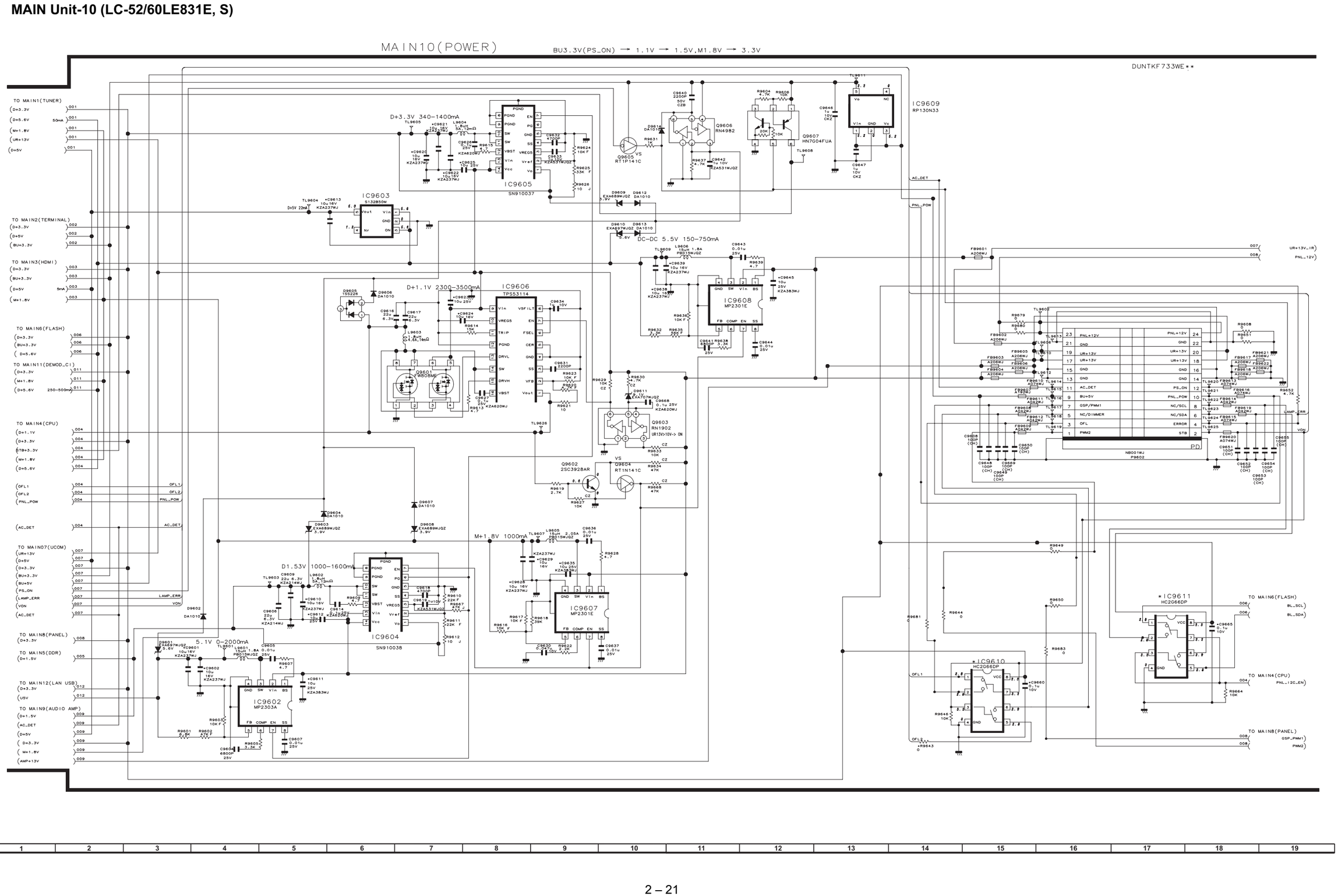
MAIN Unit-9 (LC-52/60LE831E, S)



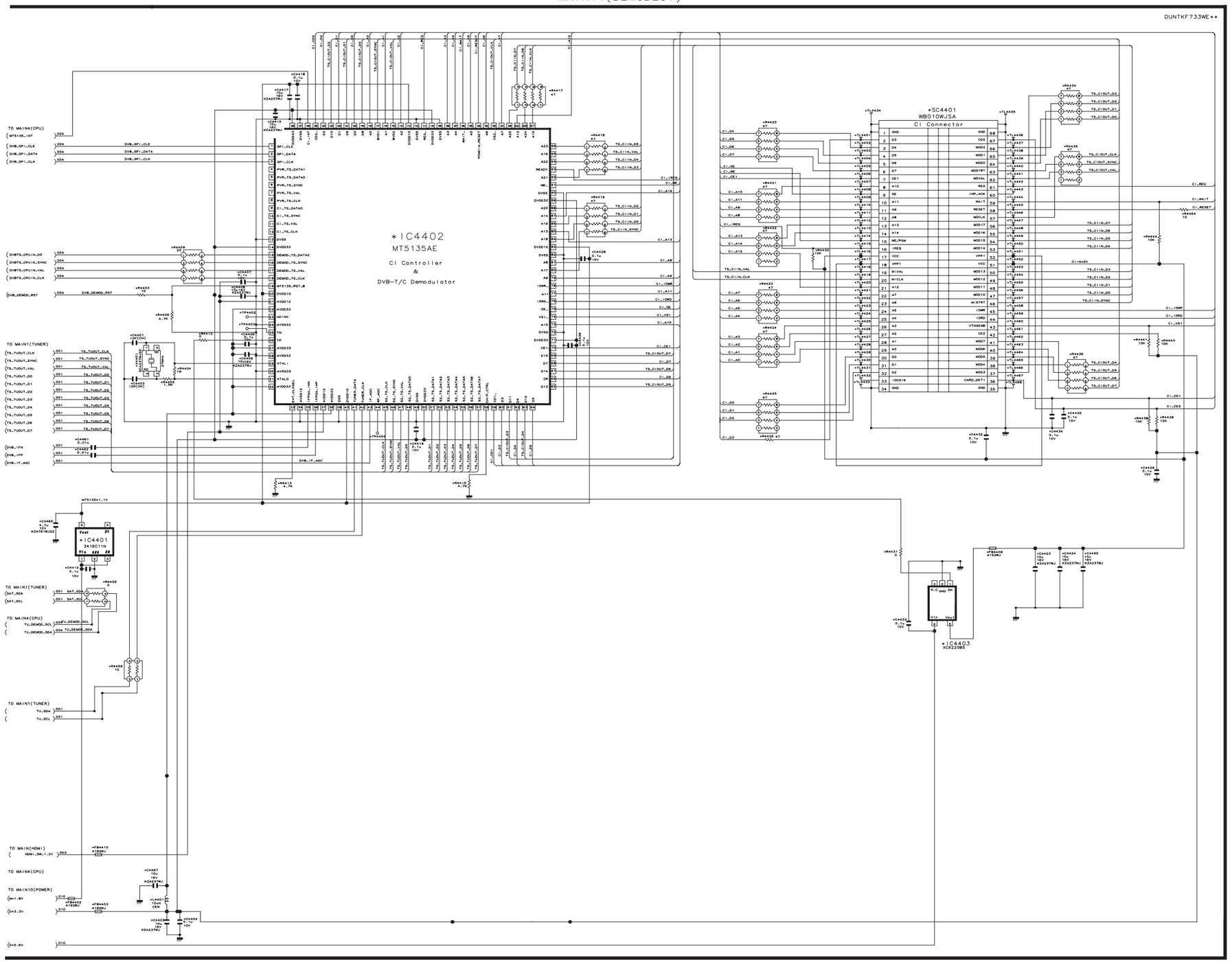
MAIN Unit-10 (LC-52/60LE830E, RU/833E)



MAIN Unit-10 (LC-52/60LE831E, S)



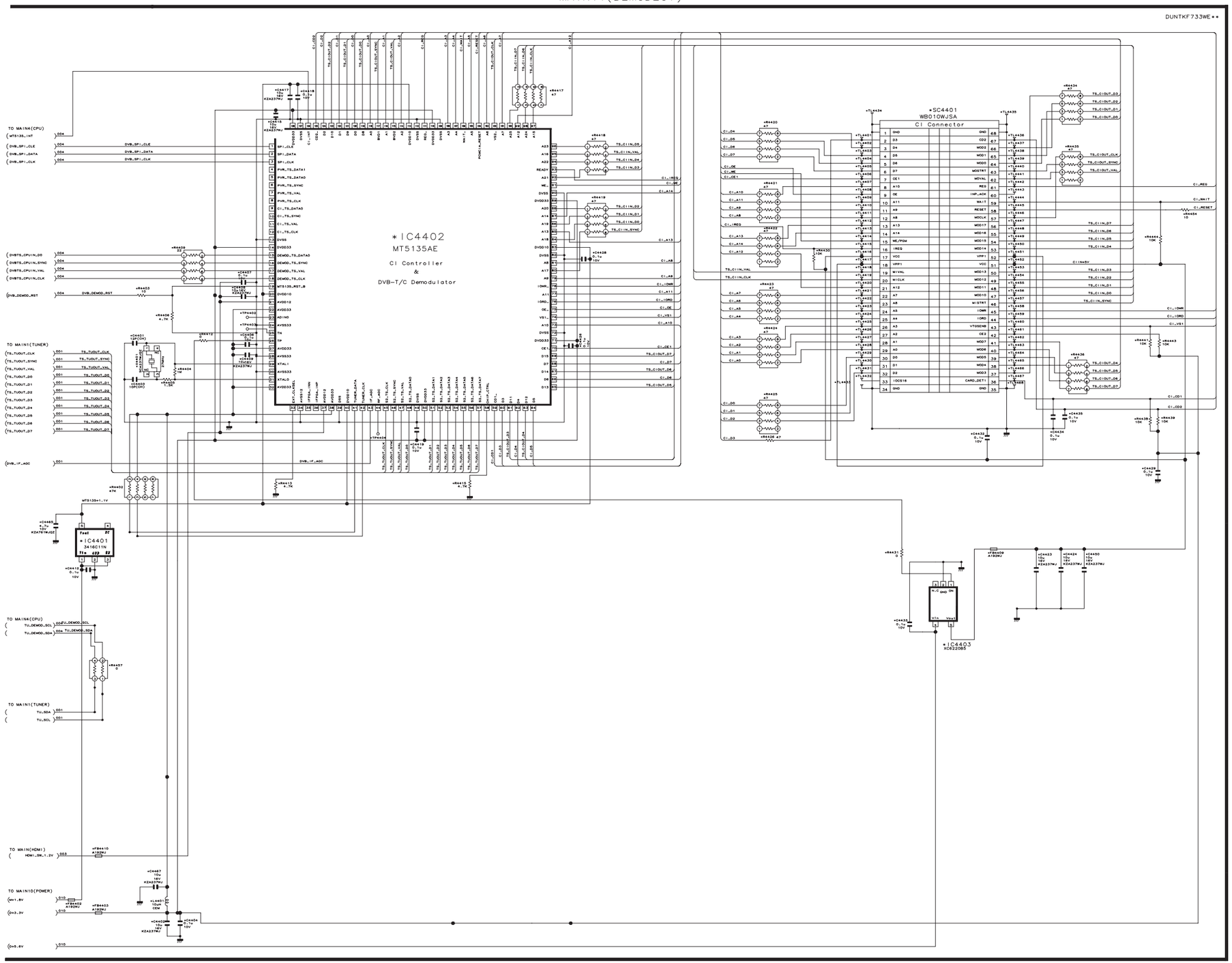
MAIN Unit-11 (LC-52/60LE830E, RU/833E)



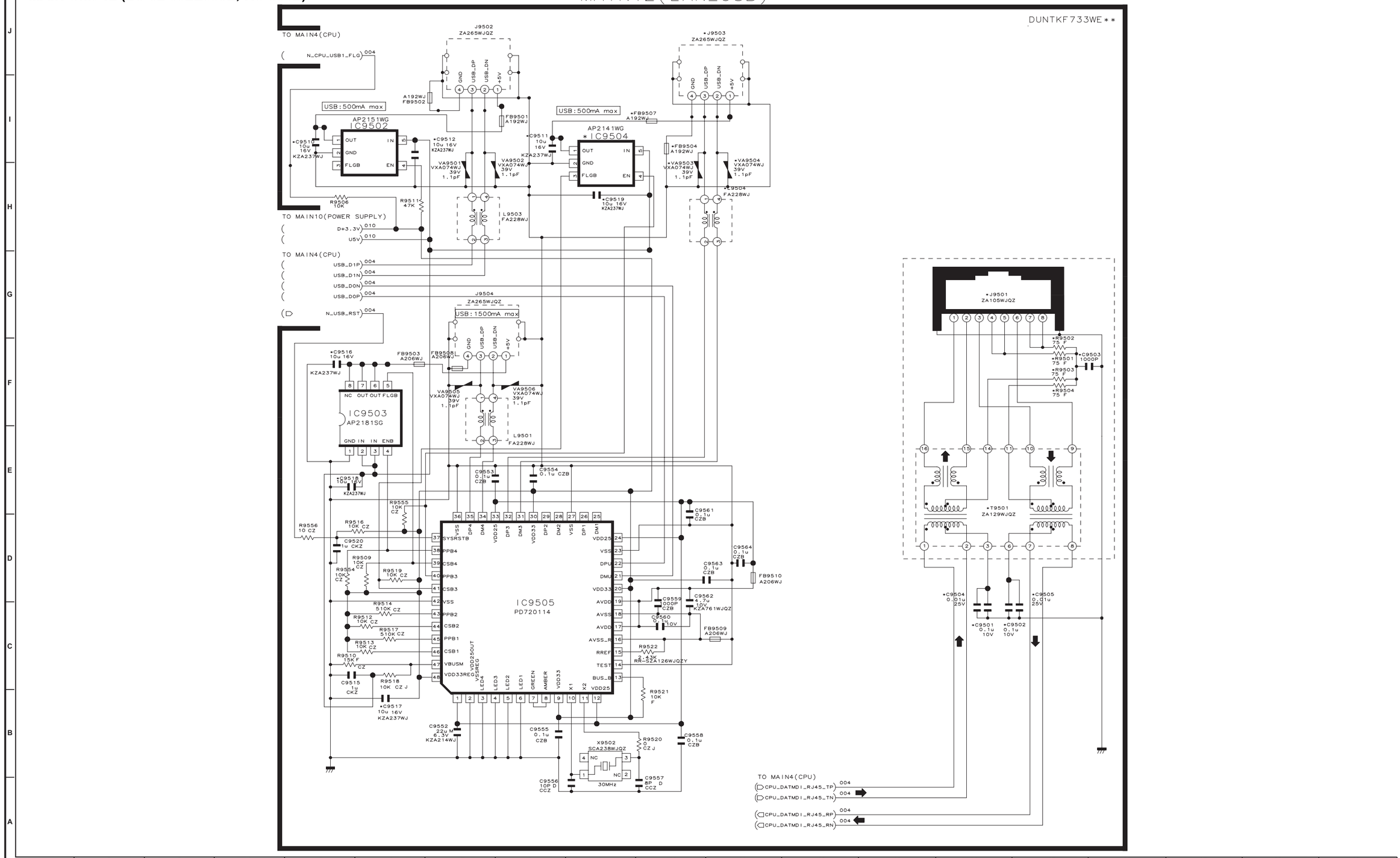
MAIN Unit-11 (LC-52/60LE831E, S)

MAIN11(DEMOD_CI)

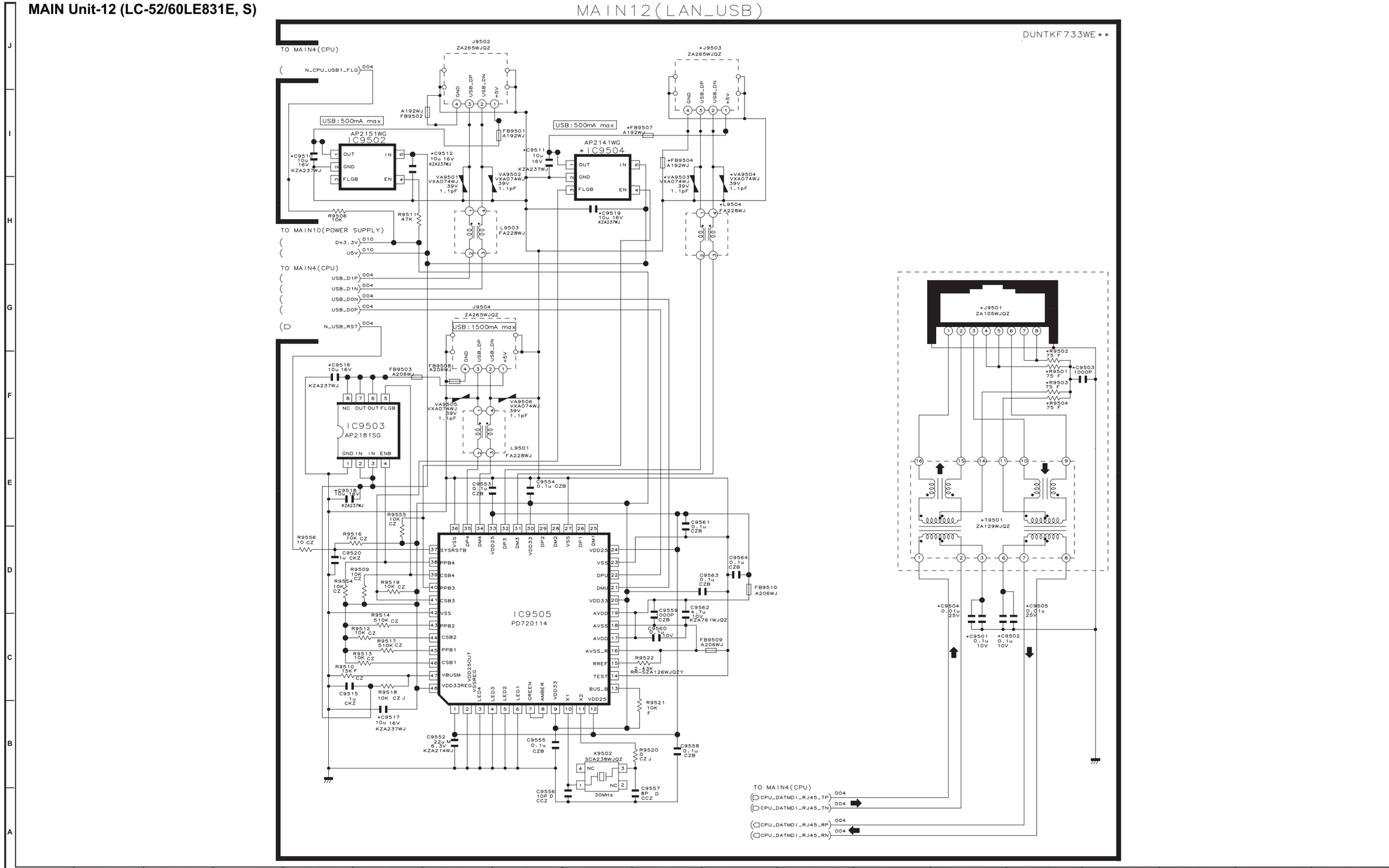
DUNTKF733WE**



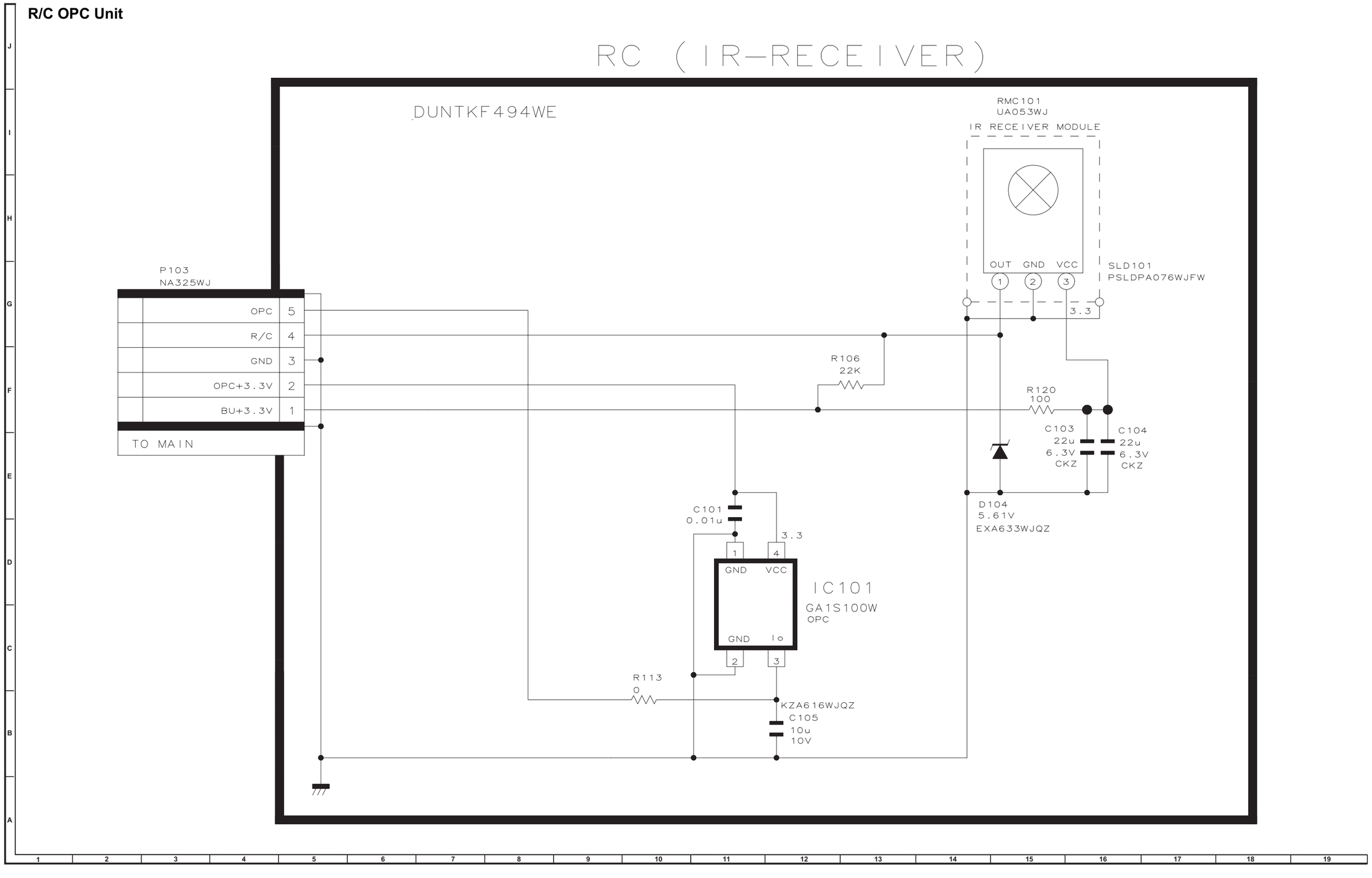
MAIN Unit-12 (LC-52/60LE830E, RU/833E)



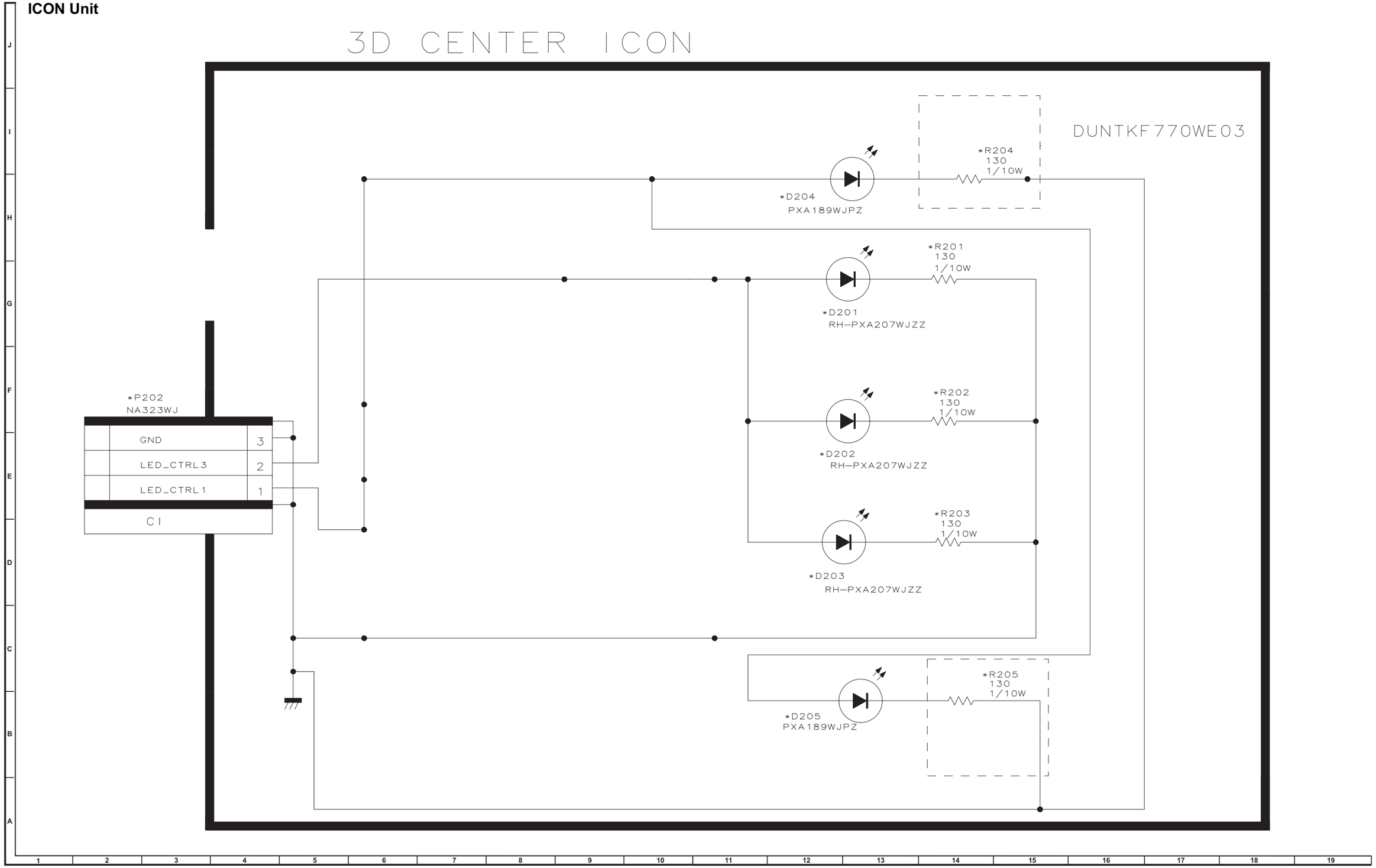
MAIN Unit-12 (LC-52/60LE831E, S)



R/C OPC Unit


RC (IR-RECEIVER)
DUNTKF494WE
P103
NA325WJ
OPC 5
R/C 4
GND 3
OPC+3.3V 2
BU+3.3V 1
TO MAIN
RMC101
UA053WJ
IR RECEIVER MODULE
OUT GND VCC
1 2 3
SLD101
PSLDPA076WJFW
3.3
R106
22K
R120
100
C103
22u
6.3V
CKZ
C104
22u
6.3V
CKZ
D104
5.61V
EXA633WJQZ
C101
0.01u
3.3
1 4
GND VCC
IC101
GA1S100W
OPC
GND Io
2 3
R113
0
KZA616WJQZ
C105
10u
10V

ICON Unit


3D CENTER ICON
DUNTKF770WE03
*P202
NA323WJ
GND
3
LED_CTRL3
2
LED_CTRL1
1
CI
*D204
PXA189WJPZ
*R204
130
1/10W
*D201
RH-PXA207WJZZ
*R201
130
1/10W
*D202
RH-PXA207WJZZ
*R202
130
1/10W
*D203
RH-PXA207WJZZ
*R203
130
1/10W
*D205
PXA189WJPZ
*R205
130
1/10W

— MEMO —

SHARP PARTS GUIDE

No. S81T452LE830E

LCD COLOUR TELEVISION

Note:
The reference numbers on the PWB are arranged in alphabetical order.

MODELS

LC-52/60LE830E/RU/E[B]/RU[B]
LC-52/60LE831E/S/E[B]/S[B]
LC-52/60LE833E/E[B]

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[1] PRINTED WIRING BOARD ASSEMBLIES

[2] DKEYDF733FM51/52/54 (MAIN Unit)

[3] DUNTKF494FM02 (R/C OPC Unit)

[4] DUNTKF770FM51 (ICON Unit)

Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

SHARP CORPORATION

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The contents are subject to change without notice.

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[1] PRINTED WIRING BOARD ASSEMBLIES					
N	DKEYDF733FM51			P	MAIN Unit (LC-52/60LE830E/RU)
N	DKEYDF733FM52			P	MAIN Unit (LC-52/60LE832E/S)
N	DKEYDF733FM54			P	MAIN Unit (LC-52/60LE833E)
N	DUNTKF494FM02			P	R/C OPC Unit
N	DUNTKF770FM51			P	ICON Unit
[2] DKEYDF733FM51/52/54 (MAIN Unit)					
C501	VCKYCZ1HB221KY	AA		J	Capacitor 220p 50V Ceramic
C502	VCKYCZ1HB221KY	AA		J	Capacitor 220p 50V Ceramic
C503	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C504	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C506	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C507	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C508	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C510	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C511	VCKYCZ1HB221KY	AA		J	Capacitor 220p 50V Ceramic
C512	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C522	VCKYCZ1HB331KY	AA		J	Capacitor 330p 50V Ceramic
C523	VCKYCZ1HB331KY	AA		J	Capacitor 330p 50V Ceramic
C530	VCKYCZ1HB471KY	AB		J	Capacitor 470p 50V Ceramic
C531	VCKYCZ1HB471KY	AB		J	Capacitor 470p 50V Ceramic
C532	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C533	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C538	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C539	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C542	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C543	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C545	VCKYCZ1HB471KY	AB		J	Capacitor 470p 50V Ceramic
C548	VCCCCZ1HH100DY	AB		J	Capacitor 10p 50V Ceramic
C549	VCCCCZ1HH100DY	AB		J	Capacitor 10p 50V Ceramic
C550	VCCCCZ1HH100DY	AB		J	Capacitor 10p 50V Ceramic
C554	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C555	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C558	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C559	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C560	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C577	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C578	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C579	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C580	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C583	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C584	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C585	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C586	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C588	VCCCCZ1HH470JY	AB		J	Capacitor 47p 50V Ceramic
C591	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C603	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C607	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C608	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C609	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C610	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C611	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C612	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C613	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C614	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C615	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C1101	VCKYCZ1EB822KY	AA		J	Capacitor 8200p 25V Ceramic (LC-52/60LE830E, RU/833E)
C1102	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic (LC-52/60LE830E, RU/833E)
C1104	RC-KZA621WJQZY	AA		J	Capacitor 1 25V Ceramic (LC-52/60LE830E, RU/833E)
C1105	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C1106	VCCCCZ1HH330JY	AB		J	Capacitor 33p 50V Ceramic (LC-52/60LE830E, RU/833E)
C1107	VCEASH1EN686MY	AD		J	Capacitor 68 25V Electrolytic (LC-52/60LE830E, RU/833E)
C1108	VCCCCZ1HH330JY	AB		J	Capacitor 33p 50V Ceramic (LC-52/60LE830E, RU/833E)
C1110	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C1111	VCEASH1EN686MY	AD		J	Capacitor 68 25V Electrolytic (LC-52/60LE830E, RU/833E)
C1112	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic (LC-52/60LE830E, RU/833E)
C1113	RC-KZA709WJQZY	AA		J	Capacitor 0.22 25V Ceramic (LC-52/60LE830E, RU/833E)
C1114	RC-KZA621WJQZY	AA		J	Capacitor 1 25V Ceramic (LC-52/60LE830E, RU/833E)
C1115	RC-KZA383WJZZY	AC		J	Capacitor 10 25V Ceramic (LC-52/60LE830E, RU/833E)
C1116	RC-KZA709WJQZY	AA		J	Capacitor 0.22 25V Ceramic (LC-52/60LE830E, RU/833E)
C1117	RC-KZA709WJQZY	AA		J	Capacitor 0.22 25V Ceramic (LC-52/60LE830E, RU/833E)
C1118	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic (LC-52/60LE831E, S)
C1119	RC-KZA383WJZZY	AC		J	Capacitor 10 25V Ceramic (LC-52/60LE830E, RU/833E)
C1120	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic (LC-52/60LE830E, RU/833E)
C1123	VCKYCZ1AB473KY	AB		J	Capacitor 0.047 10V Ceramic (LC-52/60LE830E, RU/833E)
C1124	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1125	VCKYCZ1AB473KY	AB		J	Capacitor 0.047 10V Ceramic (LC-52/60LE830E, RU/833E)
C1127	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C1128	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C1129	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C1130	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic (LC-52/60LE830E, RU/833E)
C1133	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1138	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1141	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C1145	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[2] DKEYDF733FM51/52/54 (MAIN Unit)					
C1153	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C1161	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1173	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C1174	VCCCCZ1HH330JY	AB		J	Capacitor 33p 50V Ceramic (LC-52/60LE831E, S)
C1175	VCCCCZ1HH330JY	AB		J	Capacitor 33p 50V Ceramic (LC-52/60LE831E, S)
C1178	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic (LC-52/60LE830E, RU/833E)
C1179	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic (LC-52/60LE831E, S)
C1180	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic (LC-52/60LE831E, S)
C1181	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic (LC-52/60LE830E, RU/833E)
C1182	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic (LC-52/60LE830E, RU/833E)
C1183	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic (LC-52/60LE830E, RU/833E)
C1184	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic (LC-52/60LE830E, RU/833E)
C1185	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C1188	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic (LC-52/60LE830E, RU/833E)
C1189	VCKYCY1EB104KY	AB		J	Capacitor 0.1 25V Ceramic (LC-52/60LE830E, RU/833E)
C1190	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic (LC-52/60LE830E, RU/833E)
C1191	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic (LC-52/60LE831E, S)
C1192	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic (LC-52/60LE831E, S)
C1193	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic (LC-52/60LE831E, S)
C1195	RC-KZA761WJQZY	AB	N	J	Capacitor 4.7 10V Ceramic
C1196	RC-KZA761WJQZY	AB	N	J	Capacitor 4.7 10V Ceramic
C1200	VCCCCZ1HH330JY	AB		J	Capacitor 33p 50V Ceramic
C1201	VCCCCZ1HH330JY	AB		J	Capacitor 33p 50V Ceramic
C1505	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1510	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C1511	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1512	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C1513	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1514	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C1515	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1516	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1517	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C1518	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C1519	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C1520	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C1521	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C1522	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C1523	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C1526	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1531	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C1533	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C1538	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C1539	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1540	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C1541	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1542	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C1543	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C1544	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1545	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1546	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C1547	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1548	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1549	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C1550	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1551	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C1552	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C1553	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1554	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1555	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C1556	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C1557	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1558	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C1561	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C1562	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C1563	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C1564	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C1565	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C1566	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C2001	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C2003	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C2004	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C2006	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C2007	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C2008	VCKYCZ1HB152KY	AB		J	Capacitor 1500p 50V Ceramic
C2009	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2010	VCCCCZ1HH150JY	AB		J	Capacitor 15p 50V Ceramic
C2013	VCCCCZ1HH150JY	AB		J	Capacitor 15p 50V Ceramic
C2015	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2017	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2018	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2020	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2021	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2022	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C2602	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2701	VCCCCZ1HH100DY	AB		J	Capacitor 10p 50V Ceramic

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[2] DKEYDF733FM51/52/54 (MAIN Unit)					
C2702	VCCCCZ1HH470JY	AB		J	Capacitor 47p 50V Ceramic
C2703	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2704	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2705	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2706	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2707	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2708	RC-KZA383WJZZY	AC		J	Capacitor 10 25V Ceramic
C2709	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2710	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2711	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C2712	RC-KZA383WJZZY	AC		J	Capacitor 10 25V Ceramic
C2713	RC-KZA383WJZZY	AC		J	Capacitor 10 25V Ceramic
C2714	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2715	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2716	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C2717	RC-KZA383WJZZY	AC		J	Capacitor 10 25V Ceramic
C2718	RC-KZA621WJQZY	AA		J	Capacitor 1 25V Ceramic
C2719	RC-KZA621WJQZY	AA		J	Capacitor 1 25V Ceramic
C2720	RC-KZA621WJQZY	AA		J	Capacitor 1 25V Ceramic
C2721	RC-KZA621WJQZY	AA		J	Capacitor 1 25V Ceramic
C2722	RC-KZA709WJQZY	AA		J	Capacitor 0.22 25V Ceramic
C2723	RC-KZA709WJQZY	AA		J	Capacitor 0.22 25V Ceramic
C2724	RC-KZA709WJQZY	AA		J	Capacitor 0.22 25V Ceramic
C2725	RC-KZA709WJQZY	AA		J	Capacitor 0.22 25V Ceramic
C2726	RC-KZA621WJQZY	AA		J	Capacitor 1 25V Ceramic
C2727	VCKYTV1EB334KY	AB		J	Capacitor 0.33 25V Ceramic
C2728	RC-KZA621WJQZY	AA		J	Capacitor 1 25V Ceramic
C2729	RC-KZA621WJQZY	AA		J	Capacitor 1 25V Ceramic
C2730	VCKYTV1EB334KY	AB		J	Capacitor 0.33 25V Ceramic
C2731	RC-KZA621WJQZY	AA		J	Capacitor 1 25V Ceramic
C2732	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C2733	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C2736	RC-KZA709WJQZY	AA		J	Capacitor 0.22 25V Ceramic
C2737	RC-KZA709WJQZY	AA		J	Capacitor 0.22 25V Ceramic
C2740	VCKYTV1EB334KY	AB		J	Capacitor 0.33 25V Ceramic
C2753	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2754	VCCCCZ1HH470JY	AB		J	Capacitor 47p 50V Ceramic
C2759	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C2760	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2761	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C2762	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2763	VCCCCZ1HH391JY	AA		J	Capacitor 390p 50V Ceramic
C2765	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C2768	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C2769	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C2770	VCCCCZ1HH470JY	AB		J	Capacitor 47p 50V Ceramic
C2771	VCCCCZ1HH470JY	AB		J	Capacitor 47p 50V Ceramic
C2772	RC-KZA620WJZZY	AA		J	Capacitor 0.1 25V Ceramic
C2781	RC-KZA383WJZZY	AC		J	Capacitor 10 25V Ceramic
C2782	VCCCCZ1HH120JY	AB		J	Capacitor 12p 50V Ceramic
C2783	RC-KZA383WJZZY	AC		J	Capacitor 10 25V Ceramic
C2784	RC-KZA383WJZZY	AC		J	Capacitor 10 25V Ceramic
C2786	VCCCCZ1HH391JY	AA		J	Capacitor 390p 50V Ceramic
C2787	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C2788	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C2789	VCCCCZ1HH391JY	AA		J	Capacitor 390p 50V Ceramic
C2790	VCCCCZ1HH391JY	AA		J	Capacitor 390p 50V Ceramic
C2806	RC-KZA709WJQZY	AA		J	Capacitor 0.22 25V Ceramic
C3301	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3302	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C3303	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3304	RC-KZA761WJQZY	AB	N	J	Capacitor 4.7 10V Ceramic
C3305	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C3306	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3307	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3308	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3309	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3310	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3312	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3313	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3314	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C3315	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3316	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3318	RC-KZA761WJQZY	AB	N	J	Capacitor 4.7 10V Ceramic
C3319	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3320	RC-KZA761WJQZY	AB	N	J	Capacitor 4.7 10V Ceramic
C3321	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3322	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C3323	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3324	VCKYCJ1CB104MY	AC	N	J	Capacitor 0.1 16V Ceramic
C3325	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3326	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3328	VCKYCJ1CB104MY	AC	N	J	Capacitor 0.1 16V Ceramic
C3329	VCKYCJ1CB104MY	AC	N	J	Capacitor 0.1 16V Ceramic
C3330	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[2] DKEYDF733FM51/52/54 (MAIN Unit)					
C3331	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3332	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3333	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3334	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3335	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3336	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3337	RC-KZA761WJQZY	AB	N	J	Capacitor 4.7 10V Ceramic
C3338	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C3339	RC-KZA761WJQZY	AB	N	J	Capacitor 4.7 10V Ceramic
C3340	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3341	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3342	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3343	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3344	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3345	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3346	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3347	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C3348	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3349	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C3350	VCCCCZ1HH7R0DY	AB		J	Capacitor 7p 50V Ceramic
C3351	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C3352	VCCCCZ1HH7R0DY	AB		J	Capacitor 7p 50V Ceramic
C3353	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3354	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C3355	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3356	VCKYCZ1HB152KY	AB		J	Capacitor 1500p 50V Ceramic
C3357	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3358	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3359	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C3360	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3361	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3362	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C3363	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3364	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3365	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3366	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3367	VCKYCZ1HB152KY	AB		J	Capacitor 1500p 50V Ceramic
C3368	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3369	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3370	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3371	VCKYCZ1AB473KY	AB		J	Capacitor 0.047 10V Ceramic
C3372	VCKYCZ1AB473KY	AB		J	Capacitor 0.047 10V Ceramic
C3373	VCKYCZ1AB473KY	AB		J	Capacitor 0.047 10V Ceramic
C3374	VCKYCZ1AB473KY	AB		J	Capacitor 0.047 10V Ceramic
C3375	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3376	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C3377	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C3378	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C3379	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C3380	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C3381	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C3382	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C3383	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C3384	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C3385	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C3386	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3387	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3388	VCKYCZ1AB473KY	AB		J	Capacitor 0.047 10V Ceramic
C3389	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C3393	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3394	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3395	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3396	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3399	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C3400	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3501	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3502	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3503	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C3504	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3505	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3506	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C3507	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3508	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3509	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3510	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3511	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3512	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C3513	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3514	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3515	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3516	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C3517	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3518	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3532	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C3533	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[2] DKEYDF733FM51/52/54 (MAIN Unit)					
C3534	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C4401	VCCCCZ1HH120JY	AB		J	Capacitor 12p 50V Ceramic
C4402	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C4403	VCCCCZ1HH100DY	AB		J	Capacitor 10p 50V Ceramic
C4404	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C4406	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C4407	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C4408	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C4409	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C4412	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C4415	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C4417	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C4418	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C4419	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C4423	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C4424	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C4426	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C4428	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C4429	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C4432	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C4433	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C4434	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C4435	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C4450	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C4461	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic (LC-52/60LE830E, RU/833E)
C4462	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic (LC-52/60LE830E, RU/833E)
C4465	RC-KZA761WJQZY	AB	N	J	Capacitor 4.7 10V Ceramic
C4467	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C8455	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C8456	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C8457	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C8458	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C8460	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C8469	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C8470	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C8471	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C8472	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C8473	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C9501	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C9502	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C9503	RC-KZA523WJQZY	AD		J	Capacitor 1000p Ceramic
C9504	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C9505	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C9510	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C9511	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C9512	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C9515	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C9516	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C9517	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C9518	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C9519	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C9520	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C9552	RC-KZA214WJZZY	AD		J	Capacitor 22 6.3V Ceramic
C9553	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C9554	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C9555	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C9556	VCCCCZ1HH100DY	AB		J	Capacitor 10p 50V Ceramic
C9557	VCCCCZ1HH8R0DY	AA		J	Capacitor 8p 50V Ceramic
C9558	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C9559	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C9560	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C9561	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C9562	RC-KZA761WJQZY	AB	N	J	Capacitor 4.7 10V Ceramic
C9563	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C9564	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C9601	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C9602	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C9604	VCKYCZ1EB682KY	AB		J	Capacitor 6800p 25V Ceramic
C9605	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C9606	RC-KZA214WJZZY	AD		J	Capacitor 22 6.3V Ceramic
C9607	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C9608	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C9609	RC-KZA214WJZZY	AD		J	Capacitor 22 6.3V Ceramic
C9610	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C9611	RC-KZA383WJZZY	AC		J	Capacitor 10 25V Ceramic
C9612	RC-KZA383WJZZY	AC		J	Capacitor 10 25V Ceramic
C9613	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C9614	RC-KZA620WJZZY	AA		J	Capacitor 0.1 25V Ceramic
C9616	RC-KZA214WJZZY	AD		J	Capacitor 22 6.3V Ceramic
C9617	RC-KZA214WJZZY	AD		J	Capacitor 22 6.3V Ceramic
C9618	VCKYCZ1HB472KY	AA		J	Capacitor 4700p 50V Ceramic
C9619	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C9620	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C9621	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C9622	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[2] DKEYDF733FM51/52/54 (MAIN Unit)					
C9623	RC-KZA383WJZZY	AC		J	Capacitor 10 25V Ceramic
C9624	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C9625	RC-KZA383WJZZY	AC		J	Capacitor 10 25V Ceramic
C9626	RC-KZA620WJZZY	AA		J	Capacitor 0.1 25V Ceramic
C9627	RC-KZA620WJZZY	AA		J	Capacitor 0.1 25V Ceramic
C9628	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C9629	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C9630	VCKYCZ1AB473KY	AB		J	Capacitor 0.047 10V Ceramic
C9631	VCKYCZ1HB222KY	AB		J	Capacitor 2200p 50V Ceramic
C9632	VCKYCZ1HB472KY	AA		J	Capacitor 4700p 50V Ceramic
C9633	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C9634	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C9635	RC-KZA383WJZZY	AC		J	Capacitor 10 25V Ceramic
C9636	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C9637	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C9638	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C9639	RC-KZA237WJZZY	AB		J	Capacitor 10 16V Ceramic
C9640	VCKYCZ1HB222KY	AB		J	Capacitor 2200p 50V Ceramic
C9641	VCKYCZ1EB682KY	AB		J	Capacitor 6800p 25V Ceramic
C9642	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C9643	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C9644	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C9645	RC-KZA383WJZZY	AC		J	Capacitor 10 25V Ceramic
C9646	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C9647	RC-KZA531WJQZY	AA		J	Capacitor 1 10V Ceramic
C9648	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C9649	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C9650	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C9651	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C9652	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C9653	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C9654	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C9655	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C9660	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C9665	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C9668	RC-KZA620WJZZY	AA		J	Capacitor 0.1 25V Ceramic
C9669	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
D503	RH-EXA689WJQZY	AB	N	J	Zener Diode DZ2J03900L
D504	RH-EXA689WJQZY	AB	N	J	Zener Diode DZ2J03900L
D507	RH-EXA697WJQZY	AB	N	J	Zener Diode DZ2J05600L
D508	RH-EXA697WJQZY	AB	N	J	Zener Diode DZ2J05600L
D509	RH-EXA697WJQZY	AB	N	J	Zener Diode DZ2J05600L
D510	RH-EXA697WJQZY	AB	N	J	Zener Diode DZ2J05600L
D512	VHD1SS184++-1Y	AB		J	Diode 1SS184(TE85L,F)
D515	RH-EXA697WJQZY	AB	N	J	Zener Diode DZ2J05600L
D518	RH-EXA705WJQZY	AB	N	J	Zener Diode DZ2J08200L
D519	RH-EXA705WJQZY	AB	N	J	Zener Diode DZ2J08200L
D525	RH-EXA697WJQZY	AB	N	J	Zener Diode DZ2J05600L
D527	VHPRFT4112S-1Y	AF	N	J	Photodiode RFT4112S
D1101	VHDRB156L40-1Y	AC		J	Diode RB156L-40TE25 (LC-52/60LE830E, RU/833E)
D1102	VHD1SR154++-1Y	AC		J	Diode 1SR154-400TE25 (LC-52/60LE830E, RU/833E)
D1103	VHDRB156L40-1Y	AC		J	Diode RB156L-40TE25 (LC-52/60LE830E, RU/833E)
D1104	VHDRB156L40-1Y	AC		J	Diode RB156L-40TE25 (LC-52/60LE830E, RU/833E)
D1105	VHDRB156L40-1Y	AC		J	Diode RB156L-40TE25 (LC-52/60LE830E, RU/833E)
D1501	RH-EXA705WJQZY	AB	N	J	Zener Diode DZ2J08200L
D1508	VHD1SS184++-1Y	AB		J	Diode 1SS184(TE85L,F)
D1509	VHD1SS184++-1Y	AB		J	Diode 1SS184(TE85L,F)
D1511	VHD1SS184++-1Y	AB		J	Diode 1SS184(TE85L,F)
D1512	VHD1SS420++-1Y	AC		J	Diode 1SS420(TPL3,F)1SS420(TL3,F,T)
D1517	VHD1SS184++-1Y	AB		J	Diode 1SS184(TE85L,F)
D2004	VHDDA1010++-1Y	AA		J	Diode DA2J10100L
D2005	VHD1SS184++-1Y	AB		J	Diode 1SS184(TE85L,F)
D2701	VHD1SS184++-1Y	AB		J	Diode 1SS184(TE85L,F)
D2711	VHD1SS184++-1Y	AB		J	Diode 1SS184(TE85L,F)
D3303	RH-PXA018WJZZY	AC		J	LED GM1HD55200A
D3304	VHD1SS226//-1Y	AC		J	Diode 1SS226(T5L,F,T)
D3305	RH-EXA697WJQZY	AB	N	J	Zener Diode DZ2J05600L
D3306	RH-EXA697WJQZY	AB	N	J	Zener Diode DZ2J05600L
D3307	VHD1SS226//-1Y	AC		J	Diode 1SS226(T5L,F,T)
D3308	RH-EXA713WJQZY	AB	N	J	Zener Diode DZ2J12000L
D3309	RH-EXA713WJQZY	AB	N	J	Zener Diode DZ2J12000L
D3310	RH-EXA713WJQZY	AB	N	J	Zener Diode DZ2J12000L
D3311	RH-EXA713WJQZY	AB	N	J	Zener Diode DZ2J12000L
D3312	RH-EXA713WJQZY	AB	N	J	Zener Diode DZ2J12000L
D3313	RH-EXA713WJQZY	AB	N	J	Zener Diode DZ2J12000L
D3314	RH-EXA713WJQZY	AB	N	J	Zener Diode DZ2J12000L
D3315	RH-EXA713WJQZY	AB	N	J	Zener Diode DZ2J12000L
D3316	RH-EXA713WJQZY	AB	N	J	Zener Diode DZ2J12000L
D3317	RH-EXA713WJQZY	AB	N	J	Zener Diode DZ2J12000L
D3318	VHD1SS226//-1Y	AC		J	Diode 1SS226(T5L,F,T)
D3319	VHD1SS226//-1Y	AC		J	Diode 1SS226(T5L,F,T)
D3320	VHD1SS226//-1Y	AC		J	Diode 1SS226(T5L,F,T)
D3321	VHD1SS226//-1Y	AC		J	Diode 1SS226(T5L,F,T)
D3322	VHD1SS226//-1Y	AC		J	Diode 1SS226(T5L,F,T)
D3323	VHD1SS226//-1Y	AC		J	Diode 1SS226(T5L,F,T)

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[2] DKEYDF733FM51/52/54 (MAIN Unit)					
D3324	VHD1SS226//-1Y	AC		J	Diode 1SS226(T5L,F,T)
D3325	VHD1SS226//-1Y	AC		J	Diode 1SS226(T5L,F,T)
D3326	VHD1SS226//-1Y	AC		J	Diode 1SS226(T5L,F,T)
D3327	VHD1SS226//-1Y	AC		J	Diode 1SS226(T5L,F,T)
D3328	VHD1SS226//-1Y	AC		J	Diode 1SS226(T5L,F,T)
D3329	VHD1SS226//-1Y	AC		J	Diode 1SS226(T5L,F,T)
D3330	RH-EXA697WJQZY	AB	N	J	Zener Diode DZ2J05600L
D8457	VHD1SS184++-1Y	AB		J	Diode 1SS184(TE85L,F)
D9601	RH-EXA697WJQZY	AB	N	J	Zener Diode DZ2J05600L
D9602	VHDDA1010++-1Y	AA		J	Diode DA2J10100L
D9603	RH-EXA689WJQZY	AB	N	J	Zener Diode DZ2J03900L
D9604	VHDDA1010++-1Y	AA		J	Diode DA2J10100L
D9605	VHD1SS226//-1Y	AC		J	Diode 1SS226(T5L,F,T)
D9606	VHDDA1010++-1Y	AA		J	Diode DA2J10100L
D9607	VHDDA1010++-1Y	AA		J	Diode DA2J10100L
D9608	RH-EXA689WJQZY	AB	N	J	Zener Diode DZ2J03900L
D9609	RH-EXA689WJQZY	AB	N	J	Zener Diode DZ2J03900L
D9610	RH-EXA697WJQZY	AB	N	J	Zener Diode DZ2J05600L
D9611	RH-EXA707WJQZY	AB	N	J	Zener Diode DZ2J09100L
D9612	VHDDA1010++-1Y	AA		J	Diode DA2J10100L
D9613	VHDDA1010++-1Y	AA		J	Diode DA2J10100L
D9614	VHDDA1010++-1Y	AA		J	Diode DA2J10100L
FB501	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB502	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB503	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB504	RBLN-A042WJZZY	AB		J	Ferrite Bead
FB505	RBLN-A042WJZZY	AB		J	Ferrite Bead
FB506	RBLN-A042WJZZY	AB		J	Ferrite Bead
FB507	RBLN-A042WJZZY	AB		J	Ferrite Bead
FB508	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB509	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB510	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB511	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB512	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB515	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB516	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB517	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB518	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB520	RBLN-A204WJZZY	AA		J	Ferrite Bead
FB521	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB522	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB523	RBLN-A042WJZZY	AB		J	Ferrite Bead
FB525	RBLN-A042WJZZY	AB		J	Ferrite Bead
FB527	RBLN-A042WJZZY	AB		J	Ferrite Bead
FB528	RBLN-A204WJZZY	AA		J	Ferrite Bead
FB529	RBLN-A204WJZZY	AA		J	Ferrite Bead
FB530	RBLN-A204WJZZY	AA		J	Ferrite Bead
FB533	RBLN-A527WJZZY	AB	N	J	Ferrite Bead
FB534	RBLN-A527WJZZY	AB	N	J	Ferrite Bead
FB535	RBLN-A527WJZZY	AB	N	J	Ferrite Bead
FB537	RBLN-A204WJZZY	AA		J	Ferrite Bead
FB538	RBLN-A204WJZZY	AA		J	Ferrite Bead
FB539	RBLN-A204WJZZY	AA		J	Ferrite Bead
FB540	RBLN-A204WJZZY	AA		J	Ferrite Bead
FB541	RBLN-A204WJZZY	AA		J	Ferrite Bead
FB548	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB1101	RBLN-A192WJZZY	AA		J	Ferrite Bead (LC-52/60LE830E, RU/833E)
FB1103	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB1104	RBLN-A192WJZZY	AA		J	Ferrite Bead (LC-52/60LE830E, RU/833E)
FB1505	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB1512	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB1515	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB1538	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB2001	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB2002	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB2003	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB2004	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB2005	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB2006	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB2007	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB2008	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB2009	RBLN-A042WJZZY	AB		J	Ferrite Bead
FB2010	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB2011	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB2012	RBLN-A042WJZZY	AB		J	Ferrite Bead
FB2013	RBLN-A042WJZZY	AB		J	Ferrite Bead
FB2014	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB2017	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB2018	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB2022	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB2617	RBLN-A042WJZZY	AB		J	Ferrite Bead
FB2618	RBLN-A206WJZZY	AA		J	Ferrite Bead
FB2619	RBLN-A206WJZZY	AA		J	Ferrite Bead
FB2620	RBLN-A206WJZZY	AA		J	Ferrite Bead
FB2621	RBLN-A042WJZZY	AB		J	Ferrite Bead

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[2] DKEYDF733FM51/52/54 (MAIN Unit)					
FB2622	RBLN-A042WJZZY	AB		J	Ferrite Bead
FB2623	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB2624	RBLN-A042WJZZY	AB		J	Ferrite Bead
FB2625	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB2626	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB2627	RBLN-A042WJZZY	AB		J	Ferrite Bead
FB2628	RBLN-A042WJZZY	AB		J	Ferrite Bead
FB2629	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB2630	RBLN-A206WJZZY	AA		J	Ferrite Bead
FB2631	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB2632	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB2633	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB2634	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB2635	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB2636	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB2638	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB2709	RBLN-A206WJZZY	AA		J	Ferrite Bead
FB2712	RBLN-A206WJZZY	AA		J	Ferrite Bead
FB3301	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB3302	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB3303	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB3304	RBLN-1043CEZZY	AB		J	Ferrite Bead
FB4402	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB4403	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB4409	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB4410	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB8401	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB9501	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB9502	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB9503	RBLN-A206WJZZY	AA		J	Ferrite Bead
FB9504	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB9507	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB9508	RBLN-A206WJZZY	AA		J	Ferrite Bead
FB9509	RBLN-A206WJZZY	AA		J	Ferrite Bead
FB9510	RBLN-A206WJZZY	AA		J	Ferrite Bead
FB9601	RBLN-A206WJZZY	AA		J	Ferrite Bead
FB9602	RBLN-A206WJZZY	AA		J	Ferrite Bead
FB9603	RBLN-A206WJZZY	AA		J	Ferrite Bead
FB9604	RBLN-A206WJZZY	AA		J	Ferrite Bead
FB9605	RBLN-A206WJZZY	AA		J	Ferrite Bead
FB9606	RBLN-A206WJZZY	AA		J	Ferrite Bead
FB9607	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB9608	RBLN-A042WJZZY	AB		J	Ferrite Bead
FB9609	RBLN-A042WJZZY	AB		J	Ferrite Bead
FB9610	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB9611	RBLN-A042WJZZY	AB		J	Ferrite Bead
FB9612	RBLN-A042WJZZY	AB		J	Ferrite Bead
FB9613	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB9614	RBLN-A042WJZZY	AB		J	Ferrite Bead
FB9615	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB9616	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB9617	RBLN-A206WJZZY	AA		J	Ferrite Bead
FB9618	RBLN-A206WJZZY	AA		J	Ferrite Bead
FB9619	RBLN-A042WJZZY	AB		J	Ferrite Bead
FB9620	RBLN-A074WJZZY	AA		J	Ferrite Bead
FB9621	RBLN-A206WJZZY	AA		J	Ferrite Bead
FB9622	RBLN-A206WJZZY	AA		J	Ferrite Bead
FL2001	RFiLZA023WJQZY	AD		J	Filter
FL3501	RFiLNA119WJZZY	AC		J	Filter
FL3502	RFiLNA119WJZZY	AC		J	Filter
FL3503	RFiLNA119WJZZY	AC		J	Filter
FL3504	RFiLNA119WJZZY	AC		J	Filter
FL3505	RFiLNA119WJZZY	AC		J	Filter
FL3506	RFiLNA119WJZZY	AC		J	Filter
IC503	VHiT7SET08U1EY	AC		J	IC TC7SET08FU(5L,JF,T
IC506	VHiM3221EiP-1Y	AK		J	IC MAX3221EIP
IC507	VHiMM1507XN-1Y	AD		J	IC MM1507XNRE
IC510	VHiNJW1351B-1Y	AE		J	IC NJW1351RB1(TE1)
IC1102	VHiS172B12E-1Y	AD		J	IC S-1172B12-E6T1G
IC1104	VHiS132B50M-1Y	AD		J	IC S-1132B50-M5T1G
IC1105	RH-iXC563WJQZY	AR		J	IC LNBH23PPR/1B (LC-52/60LE830E, RU/833E)
IC1108	VHi3416C25N-1Y	AB		J	IC MM3416C25NRE (LC-52/60LE831E, S)
IC1109	VHiS170B18U-1Y	AE	N	J	IC S-1170B18UC-OTDTFG
IC1501	VHiCM123408-1Y	AE		J	IC CM1234-08DE
IC1502	VHiCM123408-1Y	AE		J	IC CM1234-08DE
IC1503	VHiCM123408-1Y	AE		J	IC CM1234-08DE
IC1504	VHiSii9387+-1Q	AQ		J	IC SII9387CTU
IC1506	VHiCM123408-1Y	AE		J	IC CM1234-08DE
IC1509	VHiS172B12U-1Y	AD		J	IC S-1172B12-U5T1G
IC2001	RH-iXD241WJN2Q			J	IC R5F21368CNFP (Monitor Microcomputer)
IC2002	VHiS80927NM-1Y	AC		J	IC S-80927CNMC-G8XT2G
IC2003	VHiLCX125FT-1Y	AD		J	IC TC74LCX125FT(ELK,M
IC2004	VHiTC7SH00U-1Y	AC		J	IC TC7SH00FU(TE85L,JF
IC2005	VHiR24002AS-1Y	AC		J	IC R1EX24002ASAS0A
IC2007	VHiAHC1G08W-1Y	AD		J	IC 74AHC1G08GW,125

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[2] DKEYDF733FM51/52/54 (MAIN Unit)					
IC2601	VHiHC2G66DP-1Y	AD		J	IC 74HC2G66DP,125
IC2701	VHiYSS951VZ-1Y	AN		J	IC YSS951-VZE2
IC2702	VHiYDA164BZ-1Y	AH		J	IC YDA164B-QZE2
IC2703	VHiYDA164BZ-1Y	AH		J	IC YDA164B-QZE2
IC2704	VHiAK4201EU-1Y	AF	N	P	IC AK4201EUP
IC2706	VHiNJM4565V-1Y	AF		J	IC NJM4565V-TE1
IC3301	VHiS172B12U-1Y	AD		J	IC S-1172B12-U5T1G
IC3303	Not Available	–	N	–	IC MT5395SGXJ (Please replace the MAIN PWB when it is necessary to replace this IC.)
IC3304	VHiRP130N33-1Y	AE	N	J	IC RP130N331B-TR-FA
IC3501	RH-iXD242WJQZQ	AW	N	P	IC K4B2G1646C-HCH9
IC3502	RH-iXD242WJQZQ	AW	N	P	IC K4B2G1646C-HCH9
IC4401	VHi3416C11N-1Y	AD	N	J	IC MM3416C11NRE
IC4402	VHiMT5135AE-1Q	AM	N	P	IC MT5135AE
IC4403	Not Available	–	N	–	IC XC6220B501PR-G (Please replace the MAIN PWB when it is necessary to replace this IC.)
IC8401	Not Available	–	N	–	IC H27U2G8F2CTR-BC (Please replace the MAIN PWB when it is necessary to replace this IC.)
IC8451	VHi7WH126FU-1Y	AE		J	IC TC7WH126FU(TE12L,F)
IC8452	VHiLCX157FT-1Y	AD		J	IC TC74LCX157FT(ELK,M
IC8454	VHiAHC1G08W-1Y	AD		J	IC 74AHC1G08GW,125
IC8455	VHiBR24S64F-1Y	AD		J	IC R1EX24064ASAS0A
IC8456	VHiRP130N33-1Y	AE	N	J	IC RP130N331B-TR-FA
IC9502	VHiAP2151WG-1Y	AG	N	J	IC AP2151WG-7
IC9503	VHiAP2181SG-1Y	AG	N	J	IC AP2181SG-13
IC9504	VHiAP2141WG-1Y	AG	N	J	IC AP2141WG-7
IC9505	VHiPD720114-1Q	AL		J	IC UPD720114GA-YEUA
IC9602	VHiMP2303A+-1Y	AF		J	IC MP2303ADN-LF-Z
IC9603	VHiS132B50M-1Y	AD		J	IC S-1132B50-M5T1G
IC9604	VHiSN910038-1Y	AG	N	J	IC SN0910038PWPR
IC9605	VHiSN910037-1Y	AK	N	J	IC SN0910037PWPR
IC9606	VHiTPS53114-1Y	AK	N	J	IC TPS53114P
IC9607	VHiMP2301E+-1Y	AF		J	IC MP2301ENE-LF-Z
IC9608	VHiMP2301E+-1Y	AF		J	IC MP2301ENE-LF-Z
IC9609	VHiRP130N33-1Y	AE	N	J	IC RP130N331B-TR-FA
IC9610	VHiHC2G66DP-1Y	AD		J	IC 74HC2G66DP,125
IC9611	VHiHC2G66DP-1Y	AD		J	IC 74HC2G66DP,125
J501	QJAKEA111WJQZY	AD	N	J	Jack
J504	QJAKEA113WJQZQ	AH	N	J	Jack
J511	Not Available	–	N	–	Jack (Please replace the MAIN PWB when it is necessary to replace this Jack.)
J9501	QJAKZA105WJQZQ	AF		J	Jack
J9502	QSOCZA265WJQZY	AE	N	J	Socket
J9503	QSOCZA265WJQZY	AE	N	J	Socket
J9504	QSOCZA265WJQZY	AE	N	J	Socket
L504	Not Available	–	N	–	Coil Peaking 1.8µH (Please replace the MAIN PWB when it is necessary to replace this Coil.)
L1101	RCiLPB016WJQZY	AC		J	Coil (LC-52/60LE830E, RU/833E)
L1102	Not Available	–	N	–	Coil (Please replace the MAIN PWB when it is necessary to replace this Coil.) (LC-52/60LE830E, RU)
L1103	VPCEM100MR70NY	AC		J	Coil Peaking 10µH (LC-52/60LE830E, RU/833E)
L1104	VPCEM100MR70NY	AC		J	Coil Peaking 10µH (LC-52/60LE830E, RU/833E)
L1105	VPCEM100MR70NY	AC		J	Coil Peaking 10µH (LC-52/60LE831E, S)
L1107	VPCEM100MR70NY	AC		J	Coil Peaking 10µH
L1501	RCiLFA228WJZZY	AD		J	Coil
L1502	RCiLFA228WJZZY	AD		J	Coil
L1503	RCiLFA228WJZZY	AD		J	Coil
L1504	RCiLFA228WJZZY	AD		J	Coil
L2601	RCiLFA157WJZZY	AC		J	Coil
L2602	RCiLFA157WJZZY	AC		J	Coil
L2603	RCiLFA157WJZZY	AC		J	Coil
L2604	RCiLFA157WJZZY	AC		J	Coil
L2605	RCiLFA157WJZZY	AC		J	Coil
L2606	RCiLFA157WJZZY	AC		J	Coil
L2701	RCiLPB106WJZZY	AC		J	Coil
L2702	RCiLPB106WJZZY	AC		J	Coil
L2703	RCiLPB106WJZZY	AC		J	Coil
L2704	RCiLPB106WJZZY	AC		J	Coil
L2705	RCiLPB209WJQZY	AC		J	Coil
L2706	RCiLPB209WJQZY	AC		J	Coil
L4401	VPCEM100MR70NY	AC		J	Coil Peaking 10µH
L9501	RCiLFA228WJZZY	AD		J	Coil
L9503	RCiLFA228WJZZY	AD		J	Coil
L9504	RCiLFA228WJZZY	AD		J	Coil
L9601	RCiLPB015WJQZY	AC		J	Coil
L9602	RCiLPB009WJQZY	AD	N	J	Coil
L9603	RCiLPB009WJQZY	AD	N	J	Coil
L9604	RCiLPB009WJQZY	AD	N	J	Coil
L9605	RCiLPB015WJQZY	AC		J	Coil
L9606	RCiLPB015WJQZY	AC		J	Coil
P2001	QPLGNA335WJZZY	AD		J	Plug
P2007	QPLGNA323WJZZY	AC		J	Plug
P2601	QCNCWA671WJQZY	AH		J	Connector
P2605	QPLGNA905WJZZY	AD		J	Plug
P2701	QPLGNA906WJZZY	AE		J	Plug
P2702	QPLGNA903WJZZY	AC	N	J	Plug
P9602	QPLGNB001WJZZ	AE		J	Plug

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[2] DKEYDF733FM51/52/54 (MAIN Unit)					
Q502	VSiMH23T110-1Y	AC		J	Transistor IMH23T110
Q505	VSRT1N141U/-1Y	AB		J	Transistor RT1N141U-T111-1
Q506	VSiMH23T110-1Y	AC		J	Transistor IMH23T110
Q510	VSiSA1530AC-1Y	AA		J	Transistor ISA1530AC1-T112-1R
Q1102	VS2SC3928AR-1Y	AB		J	Transistor 2SC3928A-T112-1R
Q1103	VSRT1N141U/-1Y	AB		J	Transistor RT1N141U-T111-1
Q1106	VSiSA1530AC-1Y	AA		J	Transistor ISA1530AC1-T112-1R
Q1108	VS2SC3928AR-1Y	AB		J	Transistor 2SC3928A-T112-1R (LC-52/60LE830E, RU/833E)
Q1508	VS2SA2061++-1Y	AC		J	Transistor 2SA2061(TE85L,F)
Q1509	VSRT1N141U/-1Y	AB		J	Transistor RT1N141U-T111-1
Q1510	VSSSM6N15FU-1Y	AB		J	Transistor SSM6N15FU(TE85L,F)
Q2001	VSRT1N141U/-1Y	AB		J	Transistor RT1N141U-T111-1
Q2002	VSRT1N141C/-1Y	AB		J	Transistor RT1N141U-T112-1
Q2004	VSRT1N141C/-1Y	AB		J	Transistor RT1N141U-T112-1
Q2005	VSRT1N141C/-1Y	AB		J	Transistor RT1N141U-T112-1
Q2007	VSRT1N141C/-1Y	AB		J	Transistor RT1N141U-T112-1
Q2008	VSRN4985///-1Y	AB		J	Transistor RN4985(TE85L,F)
Q2010	VSRN4982///-1Y	AB		J	Transistor RN4982(TE85L,F)
Q2011	VSRT1P141C/-1Y	AB		J	Transistor RT1P141U-T112-1
Q2603	VSRT1N141U/-1Y	AB		J	Transistor RT1N141U-T111-1
Q2701	VSRT1N141U/-1Y	AB		J	Transistor RT1N141U-T111-1
Q2703	VSRT1N141U/-1Y	AB		J	Transistor RT1N141U-T111-1
Q9601	VSFW808ME++-1Y	AE		J	Transistor FW808-M-TL-E
Q9602	VS2SC3928AR-1Y	AB		J	Transistor 2SC3928A-T112-1R
Q9603	VSRN1902///-1Y	AC		J	Transistor RN1902(TE85L,F)/(T5L,F,T)
Q9604	VSRT1N141C/-1Y	AB		J	Transistor RT1N141U-T112-1
Q9605	VSRT1P141C/-1Y	AB		J	Transistor RT1P141U-T112-1
Q9606	VSRN4982///-1Y	AB		J	Transistor RN4982(TE85L,F)
Q9607	VSHN7G04FUA-1Y	AB		J	Transistor HN7G04FU-A(TE85L,F
R501	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R502	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R503	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R504	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R505	VRS-TQ2EF750JY	AA		J	Resistor 75 1/4W Metal Oxide
R506	VRS-TQ2EF750JY	AA		J	Resistor 75 1/4W Metal Oxide
R507	VRS-TQ2EF750JY	AA		J	Resistor 75 1/4W Metal Oxide
R508	VRS-CZ1JF513JY	AB		J	Resistor 51k 1/16W Metal Oxide
R509	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R510	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R511	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R512	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R514	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R516	VRS-TQ2EF101JY	AA		J	Resistor 100 1/4W Metal Oxide
R517	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R518	VRS-TQ2EF750JY	AA		J	Resistor 75 1/4W Metal Oxide
R519	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R520	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R521	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R522	VRS-CZ1JF221JY	AA		J	Resistor 220 1/16W Metal Oxide
R523	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R524	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R526	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R527	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R529	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R530	VRS-TQ2EF750JY	AA		J	Resistor 75 1/4W Metal Oxide
R531	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R533	VRS-CZ1JF221JY	AA		J	Resistor 220 1/16W Metal Oxide
R534	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R535	VRS-TQ2EF750JY	AA		J	Resistor 75 1/4W Metal Oxide
R537	VRS-TQ2EF750JY	AA		J	Resistor 75 1/4W Metal Oxide
R539	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R540	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R541	VRS-TQ2EF750JY	AA		J	Resistor 75 1/4W Metal Oxide
R544	VRS-TQ2EF750JY	AA		J	Resistor 75 1/4W Metal Oxide
R547	VRK-SB1FF101JY	AA		J	Resistor 100 1/32W Metal Composition
R552	VRS-TV1JD221JY	AA		J	Resistor 220 1/10W Metal Oxide
R553	VRS-TV1JD221JY	AA		J	Resistor 220 1/10W Metal Oxide
R554	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R555	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R563	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R564	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R565	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R567	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R568	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R569	VRS-CZ1JF564JY	AB		J	Resistor 560k 1/16W Metal Oxide
R570	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R571	VRS-CZ1JF564JY	AB		J	Resistor 560k 1/16W Metal Oxide
R572	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R573	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R574	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R575	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R576	VRS-CY1JF180JY	AA		J	Resistor 18 1/16W Metal Oxide
R577	VRS-CY1JF180JY	AA		J	Resistor 18 1/16W Metal Oxide
R578	VRS-CY1JF180JY	AA		J	Resistor 18 1/16W Metal Oxide
R580	VRS-TQ2EF750JY	AA		J	Resistor 75 1/4W Metal Oxide

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[2] DKEYDF733FM51/52/54 (MAIN Unit)					
R583	VRS-TQ2EF560JY	AA		J	Resistor 56 1/4W Metal Oxide
R584	VRS-TQ2EF560JY	AA		J	Resistor 56 1/4W Metal Oxide
R585	VRS-TQ2EF560JY	AA		J	Resistor 56 1/4W Metal Oxide
R586	VRS-CY1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R587	VRS-CY1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R588	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R590	VRS-TW2ED101JY	AA		J	Resistor 100 1/4W Metal Oxide
R591	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R592	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R593	VRS-TW2ED101JY	AA		J	Resistor 100 1/4W Metal Oxide
R594	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R602	VRS-CZ1JF473JY	AA		J	Resistor 47k 1/16W Metal Oxide
R604	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R606	VRS-TW2ED330JY	AA		J	Resistor 33 1/4W Metal Oxide
R607	VRS-TW2ED330JY	AA		J	Resistor 33 1/4W Metal Oxide
R608	VRS-TV1JD101JY	AA		J	Resistor 100 1/10W Metal Oxide
R609	VRS-TV1JD101JY	AA		J	Resistor 100 1/10W Metal Oxide
R613	VRS-TV1JD101JY	AA		J	Resistor 100 1/10W Metal Oxide
R615	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R618	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R620	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R624	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R625	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R627	VRS-CZ1JF473JY	AA		J	Resistor 47k 1/16W Metal Oxide
R628	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R633	VRS-CY1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R634	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R641	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R654	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R655	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R656	VRS-CZ1JF331JY	AA		J	Resistor 330 1/16W Metal Oxide
R657	VRS-CZ1JF331JY	AA		J	Resistor 330 1/16W Metal Oxide
R658	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R665	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R670	VRS-CZ1JF223FY	AA		J	Resistor 22k 1/16W Metal Oxide
R671	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R672	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R1101	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R1102	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide (LC-52/60LE831E, S)
R1103	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide (LC-52/60LE831E, S)
R1105	VRS-CZ1JF222JY	AA		J	Resistor 2.2k 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1108	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1109	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1110	VRS-CZ1JF222JY	AA		J	Resistor 2.2k 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1111	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1112	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R1113	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R1117	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R1118	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R1119	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R1120	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1121	VRS-CZ1JF391JY	AA		J	Resistor 390 1/16W Metal Oxide
R1122	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1126	VRS-CZ1JF153JY	AA		J	Resistor 15k 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1127	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1128	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1129	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1131	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1132	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1133	VRS-TQ2EF3R3JY	AA		J	Resistor 3.3 1/4W Metal Oxide (LC-52/60LE830E, RU/833E)
R1134	VRS-CZ1JF150JY	AA		J	Resistor 15 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1135	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1136	VRK-SB1FF220JY	AA		J	Resistor 22 1/32W Metal Composition (LC-52/60LE830E, RU/833E)
R1137	VRK-SB1FF220JY	AA		J	Resistor 22 1/32W Metal Composition (LC-52/60LE830E, RU/833E)
R1138	VRK-SB1FF220JY	AA		J	Resistor 22 1/32W Metal Composition (LC-52/60LE830E, RU/833E)
R1139	VRK-SB1FF220JY	AA		J	Resistor 22 1/32W Metal Composition (LC-52/60LE831E, S)
R1140	VRK-SB1FF220JY	AA		J	Resistor 22 1/32W Metal Composition (LC-52/60LE831E, S)
R1142	VRK-SA1JF100JY	AB		J	Resistor 10 1/16W Metal Composition (LC-52/60LE830E, RU/833E)
R1143	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1144	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1145	VRK-SB1FF220JY	AA		J	Resistor 22 1/32W Metal Composition (LC-52/60LE831E, S)
R1149	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1150	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1151	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1154	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1155	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1157	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1159	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1162	VRS-CY1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1164	VRS-CY1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide (LC-52/60LE831E, S)
R1176	VRS-CZ1JF331JY	AA		J	Resistor 330 1/16W Metal Oxide
R1177	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R1178	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1179	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1180	VRS-CZ1JF154JY	AA		J	Resistor 150k 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[2] DKEYDF733FM51/52/54 (MAIN Unit)					
R1181	VRS-CZ1JF222JY	AA		J	Resistor 2.2k 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1182	VRS-CZ1JF222JY	AA		J	Resistor 2.2k 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1183	VRS-CZ1JF223JY	AA		J	Resistor 22k 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1184	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1185	VRK-SB1FF000JY	AA		J	Resistor 0 1/32W Metal Composition (LC-52/60LE830E, RU/833E)
R1186	VRK-SB1FF000JY	AA		J	Resistor 0 1/32W Metal Composition (LC-52/60LE830E, RU/833E)
R1187	VRK-SB1FF000JY	AA		J	Resistor 0 1/32W Metal Composition (LC-52/60LE830E, RU/833E)
R1188	VRK-SB1FF000JY	AA		J	Resistor 0 1/32W Metal Composition (LC-52/60LE831E, S)
R1189	VRK-SB1FF000JY	AA		J	Resistor 0 1/32W Metal Composition (LC-52/60LE831E, S)
R1190	VRK-SB1FF000JY	AA		J	Resistor 0 1/32W Metal Composition (LC-52/60LE831E, S)
R1191	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1195	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1196	VRS-CZ1JF222JY	AA		J	Resistor 2.2k 1/16W Metal Oxide
R1197	VRS-CZ1JF222JY	AA		J	Resistor 2.2k 1/16W Metal Oxide
R1201	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1202	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1203	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1204	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1205	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1206	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1207	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R1210	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1211	VRS-TW2HF2R2JY	AA		J	Resistor 2.2 1/2W Metal Oxide
R1212	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1507	VRS-CZ1JF273JY	AA		J	Resistor 27k 1/16W Metal Oxide
R1509	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R1512	VRK-SB1FF473JY	AB		J	Resistor 47k 1/32W Metal Composition
R1514	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R1519	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1521	VRS-CZ1JF510FY	AA		J	Resistor 51 1/16W Metal Oxide
R1522	VRS-CZ1JF510FY	AA		J	Resistor 51 1/16W Metal Oxide
R1524	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R1525	VRS-CZ1JF750FY	AA		J	Resistor 75 1/16W Metal Oxide
R1527	VRS-CZ1JF750FY	AA		J	Resistor 75 1/16W Metal Oxide
R1531	VRK-SA1JF100JY	AB		J	Resistor 10 1/16W Metal Composition
R1533	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R1534	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R1536	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1537	VRK-SA1JF100JY	AB		J	Resistor 10 1/16W Metal Composition
R1538	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R1540	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R1541	VRK-SB1FF100JY	AA		J	Resistor 10 1/32W Metal Composition
R1542	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R1543	VRK-SA1JF100JY	AB		J	Resistor 10 1/16W Metal Composition
R1545	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1551	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R1552	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R1553	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R1554	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R1555	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R1556	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R1557	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R1558	VRS-CZ1JF331JY	AA		J	Resistor 330 1/16W Metal Oxide
R1561	VRK-SB1FF473JY	AB		J	Resistor 47k 1/32W Metal Composition
R1562	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1563	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1565	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R1566	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R1567	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1568	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1569	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R1571	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1572	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1573	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1574	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1575	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1576	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1577	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1581	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1582	VRK-SA1JF100JY	AB		J	Resistor 10 1/16W Metal Composition
R1583	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1584	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R1585	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1589	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R1595	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R1597	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1598	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1599	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1600	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1601	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1602	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1603	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1604	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1605	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1606	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[2] DKEYDF733FM51/52/54 (MAIN Unit)					
R1607	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1608	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1609	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1610	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1611	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1612	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1613	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1614	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1615	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1616	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1617	VRS-CZ1JF5R1JY	AA		J	Resistor 5.1 1/16W Metal Oxide
R1619	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R1621	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R1623	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R1629	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2001	VRS-CY1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2002	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R2003	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2005	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2006	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2007	VRK-SA1JF222JY	AB		J	Resistor 2.2k 1/16W Metal Composition
R2008	VRS-CZ1JF223JY	AA		J	Resistor 22k 1/16W Metal Oxide
R2009	VRS-CZ1JF223JY	AA		J	Resistor 22k 1/16W Metal Oxide
R2011	VRS-CZ1JF333JY	AA		J	Resistor 33k 1/16W Metal Oxide
R2012	VRS-CZ1JF333JY	AA		J	Resistor 33k 1/16W Metal Oxide
R2014	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R2015	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R2016	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R2019	VRK-SA1JF100JY	AB		J	Resistor 10 1/16W Metal Composition
R2020	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2025	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R2026	VRS-CZ1JF473JY	AA		J	Resistor 47k 1/16W Metal Oxide
R2028	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R2029	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R2030	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R2031	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2032	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2033	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R2034	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R2035	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R2036	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R2037	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R2038	VRS-CZ1JF106JY	AA		J	Resistor 10M 1/16W Metal Oxide
R2040	VRK-SA1JF221JY	AE	N	J	Resistor 220 1/16W Metal Composition
R2041	VRS-CZ1JF394JY	AA		J	Resistor 390k 1/16W Metal Oxide
R2043	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2044	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R2045	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2047	VRS-CZ1JF223JY	AA		J	Resistor 22k 1/16W Metal Oxide
R2049	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R2050	VRK-SA1JF221JY	AE	N	J	Resistor 220 1/16W Metal Composition
R2051	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R2052	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R2053	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R2054	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R2055	VRS-CZ1JF273JY	AA		J	Resistor 27k 1/16W Metal Oxide
R2056	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R2057	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2059	VRK-SB1FF103JY	AA		J	Resistor 10k 1/32W Metal Composition
R2060	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2061	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2062	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2066	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R2069	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R2070	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2072	VRS-CZ1JF272JY	AA		J	Resistor 2.7k 1/16W Metal Oxide
R2601	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2613	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2620	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2635	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2636	VRS-CZ1JF105JY	AA		J	Resistor 1M 1/16W Metal Oxide
R2642	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2645	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2649	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2701	VRK-SA1JF100JY	AB		J	Resistor 10 1/16W Metal Composition
R2702	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R2703	VRS-CZ1JF105JY	AA		J	Resistor 1M 1/16W Metal Oxide
R2706	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2707	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2708	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R2709	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R2710	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2714	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R2715	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R2716	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[2] DKEYDF733FM51/52/54 (MAIN Unit)					
R2717	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2718	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2719	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2720	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2725	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2726	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2727	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2728	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2729	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2730	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2731	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2732	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2733	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2734	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2735	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2736	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2738	VRS-CZ1JF564JY	AB		J	Resistor 560k 1/16W Metal Oxide
R2739	VRS-CZ1JF153JY	AA		J	Resistor 15k 1/16W Metal Oxide
R2740	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2743	VRS-CZ1JF564JY	AB		J	Resistor 560k 1/16W Metal Oxide
R2744	VRS-CZ1JF153JY	AA		J	Resistor 15k 1/16W Metal Oxide
R2745	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2746	VRS-CZ1JF224JY	AA		J	Resistor 220k 1/16W Metal Oxide
R2748	VRS-CZ1JF473JY	AA		J	Resistor 47k 1/16W Metal Oxide
R2749	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2751	VRS-CZ1JF473JY	AA		J	Resistor 47k 1/16W Metal Oxide
R2752	VRS-CZ1JF153JY	AA		J	Resistor 15k 1/16W Metal Oxide
R2753	VRS-CZ1JF563JY	AA		J	Resistor 56k 1/16W Metal Oxide
R2754	VRS-CZ1JF223JY	AA		J	Resistor 22k 1/16W Metal Oxide
R2756	VRS-CZ1JF563JY	AA		J	Resistor 56k 1/16W Metal Oxide
R2757	VRS-CZ1JF473JY	AA		J	Resistor 47k 1/16W Metal Oxide
R2758	VRS-CZ1JF333JY	AA		J	Resistor 33k 1/16W Metal Oxide
R2759	VRS-CZ1JF563JY	AA		J	Resistor 56k 1/16W Metal Oxide
R2763	VRS-TV1JD000JY	AA		J	Resistor 0 1/10W Metal Oxide
R2764	VRS-TV1JD000JY	AA		J	Resistor 0 1/10W Metal Oxide
R2765	VRS-TV1JD000JY	AA		J	Resistor 0 1/10W Metal Oxide
R2766	VRS-TV1JD000JY	AA		J	Resistor 0 1/10W Metal Oxide
R2769	VRS-CZ1JF473JY	AA		J	Resistor 47k 1/16W Metal Oxide
R2770	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R2771	VRS-CZ1JF473JY	AA		J	Resistor 47k 1/16W Metal Oxide
R2779	VRS-CZ1JF473JY	AA		J	Resistor 47k 1/16W Metal Oxide
R2781	VRS-CZ1JF563JY	AA		J	Resistor 56k 1/16W Metal Oxide
R2782	VRS-CZ1JF333JY	AA		J	Resistor 33k 1/16W Metal Oxide
R2783	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2784	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2788	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2790	VRS-CZ1JF153JY	AA		J	Resistor 15k 1/16W Metal Oxide
R2791	VRS-CZ1JF153JY	AA		J	Resistor 15k 1/16W Metal Oxide
R2816	VRS-CZ1JF223JY	AA		J	Resistor 22k 1/16W Metal Oxide
R2817	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2839	VRS-CY1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2840	VRS-CY1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2842	VRS-CY1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3303	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3305	VRK-SB1FF102JY	AC		J	Resistor 1k 1/32W Metal Composition
R3306	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R3307	VRS-CZ1JF331FY	AA		J	Resistor 330 1/16W Metal Oxide
R3308	VRS-CZ1JF331FY	AA		J	Resistor 330 1/16W Metal Oxide
R3309	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R3310	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R3311	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3312	VRS-CZ1JF560JY	AA		J	Resistor 56 1/16W Metal Oxide
R3313	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R3314	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R3316	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R3318	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R3320	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R3321	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R3323	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R3324	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R3325	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R3327	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R3329	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R3330	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3331	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3333	VRS-CZ1JF512FY	AA		J	Resistor 5.1k 1/16W Metal Oxide
R3335	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R3337	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R3338	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R3339	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3340	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R3341	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R3343	VRS-CZ1JF561FY	AA		J	Resistor 560 1/16W Metal Oxide
R3344	VRS-CZ1JF123FY	AA		J	Resistor 12k 1/16W Metal Oxide
R3345	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[2] DKEYDF733FM51/52/54 (MAIN Unit)					
R3346	VRS-CZ1JF105JY	AA		J	Resistor 1M 1/16W Metal Oxide
R3347	VRS-CZ1JF123FY	AA		J	Resistor 12k 1/16W Metal Oxide
R3348	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R3349	VRS-CZ1JF123FY	AA		J	Resistor 12k 1/16W Metal Oxide
R3350	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3351	VRS-CZ1JF222JY	AA		J	Resistor 2.2k 1/16W Metal Oxide
R3352	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R3353	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3354	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3355	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3359	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R3360	VRS-CZ1JF221JY	AA		J	Resistor 220 1/16W Metal Oxide
R3361	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R3362	VRS-CZ1JF680JY	AB		J	Resistor 68 1/16W Metal Oxide
R3363	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3364	VRK-SB1FF000JY	AA		J	Resistor 0 1/32W Metal Composition
R3367	VRS-CZ1JF680JY	AB		J	Resistor 68 1/16W Metal Oxide
R3368	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R3369	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R3370	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3371	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3372	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3373	VRS-CZ1JF680JY	AB		J	Resistor 68 1/16W Metal Oxide
R3374	VRS-CZ1JF680JY	AB		J	Resistor 68 1/16W Metal Oxide
R3375	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3376	VRS-CZ1JF680JY	AB		J	Resistor 68 1/16W Metal Oxide
R3377	VRS-CZ1JF680JY	AB		J	Resistor 68 1/16W Metal Oxide
R3378	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3379	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3380	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3381	VRS-CZ1JF680JY	AB		J	Resistor 68 1/16W Metal Oxide
R3382	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3383	VRS-CZ1JF680JY	AB		J	Resistor 68 1/16W Metal Oxide
R3384	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3385	VRS-CZ1JF303JY	AA		J	Resistor 30k 1/16W Metal Oxide
R3386	VRS-CZ1JF303JY	AA		J	Resistor 30k 1/16W Metal Oxide
R3387	VRS-CZ1JF303JY	AA		J	Resistor 30k 1/16W Metal Oxide
R3388	VRS-CZ1JF303JY	AA		J	Resistor 30k 1/16W Metal Oxide
R3389	VRS-CZ1JF303JY	AA		J	Resistor 30k 1/16W Metal Oxide
R3390	VRS-CZ1JF303JY	AA		J	Resistor 30k 1/16W Metal Oxide
R3391	VRS-CZ1JF303JY	AA		J	Resistor 30k 1/16W Metal Oxide
R3392	VRS-CZ1JF303JY	AA		J	Resistor 30k 1/16W Metal Oxide
R3393	VRS-CZ1JF303JY	AA		J	Resistor 30k 1/16W Metal Oxide
R3394	VRS-CZ1JF303JY	AA		J	Resistor 30k 1/16W Metal Oxide
R3395	VRS-CZ1JF680JY	AB		J	Resistor 68 1/16W Metal Oxide
R3396	VRS-CZ1JF390JY	AA		J	Resistor 39 1/16W Metal Oxide
R3397	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3398	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R3401	VRS-CZ1JF223JY	AA		J	Resistor 22k 1/16W Metal Oxide
R3406	VRS-CZ1JF223JY	AA		J	Resistor 22k 1/16W Metal Oxide
R3407	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R3408	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R3409	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R3410	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R3411	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R3412	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3413	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3414	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3415	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3416	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3417	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3418	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3419	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R3420	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R3421	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R3422	VRS-CZ1JF222JY	AA		J	Resistor 2.2k 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R3423	VRS-CZ1JF222JY	AA		J	Resistor 2.2k 1/16W Metal Oxide (LC-52/60LE830E, RU/833E)
R3424	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R3427	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R3428	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R3429	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R3430	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R3431	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R3433	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R3434	VRS-CZ1JF331JY	AA		J	Resistor 330 1/16W Metal Oxide
R3435	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R3436	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R3439	VRS-CY1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3440	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3443	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3501	VRS-CZ1JF102FY	AA		J	Resistor 1k 1/16W Metal Oxide
R3502	VRS-CZ1JF102FY	AA		J	Resistor 1k 1/16W Metal Oxide
R3503	VRS-CZ1JF241FY	AB		J	Resistor 240 1/16W Metal Oxide
R3504	VRS-CZ1JF102FY	AA		J	Resistor 1k 1/16W Metal Oxide
R3505	VRS-CZ1JF102FY	AA		J	Resistor 1k 1/16W Metal Oxide

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[2] DKEYDF733FM51/52/54 (MAIN Unit)					
R3506	VRK-SA1JF000JY	AB		J	Resistor 0 1/16W Metal Composition
R3507	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R3508	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R3509	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R3510	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R3511	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R3512	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3513	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R3514	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R3515	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R3516	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R3517	VRS-CZ1JF102FY	AA		J	Resistor 1k 1/16W Metal Oxide
R3518	VRS-CZ1JF102FY	AA		J	Resistor 1k 1/16W Metal Oxide
R3519	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3520	VRS-CZ1JF241FY	AB		J	Resistor 240 1/16W Metal Oxide
R3521	VRS-CZ1JF102FY	AA		J	Resistor 1k 1/16W Metal Oxide
R3522	VRS-CZ1JF102FY	AA		J	Resistor 1k 1/16W Metal Oxide
R3523	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R3524	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R3525	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R3526	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R3527	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R3528	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R3529	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R3530	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R3531	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R3532	VRK-SA1JF000JY	AB		J	Resistor 0 1/16W Metal Composition
R4402	VRK-SB1FF473JY	AB		J	Resistor 47k 1/32W Metal Composition (LC-52/60LE831E, S)
R4403	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R4404	VRS-CZ1JF105JY	AA		J	Resistor 1M 1/16W Metal Oxide
R4405	VRS-CZ1JF152JY	AA		J	Resistor 1.5k 1/16W Metal Oxide
R4406	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R4409	VRK-SB1FF220JY	AA		J	Resistor 22 1/32W Metal Composition
R4412	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R4413	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R4415	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R4417	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R4418	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R4419	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R4420	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R4421	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R4422	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R4423	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R4424	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R4425	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R4426	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R4430	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R4431	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R4434	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R4435	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R4436	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R4438	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R4439	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R4441	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R4443	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R4444	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R4454	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R4455	VRK-SA1JF000JY	AB		J	Resistor 0 1/16W Metal Composition (LC-52/60LE830E, RU/833E)
R4457	VRK-SA1JF000JY	AB		J	Resistor 0 1/16W Metal Composition (LC-52/60LE831E, S)
R4459	VRK-SA1JF100JY	AB		J	Resistor 10 1/16W Metal Composition (LC-52/60LE830E, RU/833E)
R8401	VRK-SA1JF102JY	AB		J	Resistor 1k 1/16W Metal Composition
R8402	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R8403	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R8405	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R8406	VRK-SB1FF103JY	AA		J	Resistor 10k 1/32W Metal Composition
R8408	VRS-CZ1JF820JY	AA		J	Resistor 82 1/16W Metal Oxide
R8409	VRS-CZ1JF820JY	AA		J	Resistor 82 1/16W Metal Oxide
R8414	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R8415	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R8416	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R8417	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R8420	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R8451	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R8452	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R8453	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R8454	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R8455	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R8458	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R8459	VRK-SB1FF470JY	AA		J	Resistor 47 1/32W Metal Composition
R8462	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R8463	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R8467	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R8468	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R8472	VRK-SA1JF102JY	AB		J	Resistor 1k 1/16W Metal Composition
R8477	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[2] DKEYDF733FM51/52/54 (MAIN Unit)					
R8478	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R8479	VRS-CZ1JF473JY	AA		J	Resistor 47k 1/16W Metal Oxide
R8480	VRK-SA1JF100JY	AB		J	Resistor 10 1/16W Metal Composition
R8481	VRS-CZ1JF332JY	AA		J	Resistor 3.3k 1/16W Metal Oxide
R8482	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R8487	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R8488	VRS-CZ1JF820JY	AA		J	Resistor 82 1/16W Metal Oxide
R8489	VRS-CZ1JF820JY	AA		J	Resistor 82 1/16W Metal Oxide
R8490	VRS-CZ1JF820JY	AA		J	Resistor 82 1/16W Metal Oxide
R8491	VRS-CZ1JF820JY	AA		J	Resistor 82 1/16W Metal Oxide
R9501	VRS-CZ1JF750FY	AA		J	Resistor 75 1/16W Metal Oxide
R9502	VRS-CZ1JF750FY	AA		J	Resistor 75 1/16W Metal Oxide
R9503	VRS-CZ1JF750FY	AA		J	Resistor 75 1/16W Metal Oxide
R9504	VRS-CZ1JF750FY	AA		J	Resistor 75 1/16W Metal Oxide
R9506	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R9509	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R9510	VRS-CZ1JF153FY	AA		J	Resistor 15k 1/16W Metal Oxide
R9511	VRS-CZ1JF473JY	AA		J	Resistor 47k 1/16W Metal Oxide
R9512	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R9513	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R9514	VRS-CZ1JF514JY	AA		J	Resistor 510k 1/16W Metal Oxide
R9516	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R9517	VRS-CZ1JF514JY	AA		J	Resistor 510k 1/16W Metal Oxide
R9518	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R9519	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R9520	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R9521	VRS-CZ1JF103FY	AB		J	Resistor 10k 1/16W Metal Oxide
R9522	RR-SZA126WJQZY	AA		J	Resistor 2.43k
R9554	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R9555	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R9556	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R9601	VRS-CZ1JF682JY	AA		J	Resistor 6.8k 1/16W Metal Oxide
R9602	VRS-CZ1JF473FY	AA		J	Resistor 47k 1/16W Metal Oxide
R9603	VRS-CZ1JF103FY	AB		J	Resistor 10k 1/16W Metal Oxide
R9604	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R9605	VRS-CZ1JF332JY	AA		J	Resistor 3.3k 1/16W Metal Oxide
R9606	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R9607	VRS-CZ1JF4R7JY	AA		J	Resistor 4.7 1/16W Metal Oxide
R9608	VRS-TV2BD000JY	AB		J	Resistor 0 1/10W Metal Oxide
R9609	VRS-CZ1JF4R7JY	AA		J	Resistor 4.7 1/16W Metal Oxide
R9610	VRS-CZ1JF223FY	AA		J	Resistor 22k 1/16W Metal Oxide
R9611	VRS-CZ1JF223FY	AA		J	Resistor 22k 1/16W Metal Oxide
R9612	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R9613	VRS-CZ1JF4R7JY	AA		J	Resistor 4.7 1/16W Metal Oxide
R9614	VRS-CZ1JF153JY	AA		J	Resistor 15k 1/16W Metal Oxide
R9615	VRS-CZ1JF4R7JY	AA		J	Resistor 4.7 1/16W Metal Oxide
R9616	VRS-CZ1JF103FY	AB		J	Resistor 10k 1/16W Metal Oxide
R9617	VRS-CZ1JF103FY	AB		J	Resistor 10k 1/16W Metal Oxide
R9618	VRS-CZ1JF393JY	AA		J	Resistor 39k 1/16W Metal Oxide
R9619	VRS-CZ1JF272JY	AA		J	Resistor 2.7k 1/16W Metal Oxide
R9620	VRS-CZ1JF472FY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R9621	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R9622	VRS-CZ1JF222JY	AA		J	Resistor 2.2k 1/16W Metal Oxide
R9623	VRS-CZ1JF103FY	AB		J	Resistor 10k 1/16W Metal Oxide
R9624	VRS-CZ1JF103FY	AB		J	Resistor 10k 1/16W Metal Oxide
R9625	VRS-CZ1JF333FY	AA		J	Resistor 33k 1/16W Metal Oxide
R9626	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R9627	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R9628	VRS-CZ1JF4R7JY	AA		J	Resistor 4.7 1/16W Metal Oxide
R9629	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R9630	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R9631	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R9632	VRS-CZ1JF332JY	AA		J	Resistor 3.3k 1/16W Metal Oxide
R9633	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R9634	VRS-CZ1JF473JY	AA		J	Resistor 47k 1/16W Metal Oxide
R9635	VRS-CZ1JF563FY	AA		J	Resistor 56k 1/16W Metal Oxide
R9636	VRS-CZ1JF103FY	AB		J	Resistor 10k 1/16W Metal Oxide
R9637	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R9638	VRS-CZ1JF332JY	AA		J	Resistor 3.3k 1/16W Metal Oxide
R9639	VRS-CZ1JF4R7JY	AA		J	Resistor 4.7 1/16W Metal Oxide
R9643	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R9644	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R9646	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R9649	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R9650	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R9651	VRS-TV2BD000JY	AB		J	Resistor 0 1/10W Metal Oxide
R9652	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R9664	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R9667	VRS-CZ1JF473JY	AA		J	Resistor 47k 1/16W Metal Oxide
R9668	VRS-CZ1JF473JY	AA		J	Resistor 47k 1/16W Metal Oxide
R9679	VRS-TV2BD000JY	AB		J	Resistor 0 1/10W Metal Oxide
R9680	VRS-TV2BD000JY	AB		J	Resistor 0 1/10W Metal Oxide
R9681	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R9683	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
SC501	QSOCNA816WJZZ	AG	N	J	Socket

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[2] DKEYDF733FM51/52/54 (MAIN Unit)					
SC504	Not Available	–	N	–	Socket (Please replace the MAIN PWB when it is necessary to replace this Socket.)
SC505	Not Available	–	N	–	Socket (Please replace the MAIN PWB when it is necessary to replace this Socket.)
SC1501	QSOCZA264WJQZY	AE		J	Socket
SC1502	QSOCZA264WJQZY	AE		J	Socket
SC1503	QSOCZA264WJQZY	AE		J	Socket
SC1505	QSOCZA264WJQZY	AE		J	Socket
SC4401	Not Available	–	N	–	Connector (Please replace the MAIN PWB when it is necessary to replace this Connector.)
SC8454	Not Available	–	N	–	Socket (Please replace the MAIN PWB when it is necessary to replace this Socket.)
T9501	RTRNZA129WJQZY	AH		J	Transformer
TH2001	VHHM1103J15-1Y	AB		J	Thermistor
TU1102	RTUDWA029WJQZ	BF	N	P	Tuner (LC-52/60LE830E, RU/833E)
TU1104	RTUDAA072WJQZ	BL	N	P	Tuner (LC-52/60LE831E, S)
VA501	RH-VXA005WJZZY	AA		J	Varistor AVR-M1005C270MTABB
VA502	RH-VXA005WJZZY	AA		J	Varistor AVR-M1005C270MTABB
VA506	RH-VXA005WJZZY	AA		J	Varistor AVR-M1005C270MTABB
VA507	RH-VXA005WJZZY	AA		J	Varistor AVR-M1005C270MTABB
VA508	RH-VXA005WJZZY	AA		J	Varistor AVR-M1005C270MTABB
VA509	RH-VXA005WJZZY	AA		J	Varistor AVR-M1005C270MTABB
VA510	RH-VXA005WJZZY	AA		J	Varistor AVR-M1005C270MTABB
VA1501	RH-VXA074WJZZY	AB		J	Varistor AVRL101A1R1NTB
VA1502	RH-VXA074WJZZY	AB		J	Varistor AVRL101A1R1NTB
VA1503	RH-VXA074WJZZY	AB		J	Varistor AVRL101A1R1NTB
VA1504	RH-VXA074WJZZY	AB		J	Varistor AVRL101A1R1NTB
VA1506	RH-VXA074WJZZY	AB		J	Varistor AVRL101A1R1NTB
VA1508	RH-VXA074WJZZY	AB		J	Varistor AVRL101A1R1NTB
VA1509	RH-VXA074WJZZY	AB		J	Varistor AVRL101A1R1NTB
VA1510	RH-VXA074WJZZY	AB		J	Varistor AVRL101A1R1NTB
VA9501	RH-VXA074WJZZY	AB		J	Varistor AVRL101A1R1NTB
VA9502	RH-VXA074WJZZY	AB		J	Varistor AVRL101A1R1NTB
VA9503	RH-VXA074WJZZY	AB		J	Varistor AVRL101A1R1NTB
VA9504	RH-VXA074WJZZY	AB		J	Varistor AVRL101A1R1NTB
VA9505	RH-VXA074WJZZY	AB		J	Varistor AVRL101A1R1NTB
VA9506	RH-VXA074WJZZY	AB		J	Varistor AVRL101A1R1NTB
X2001	RCRSC0032TAZZY	AG		J	Crystal
X2701	RCRSCA235WJQZY	AD		J	Crystal
X3301	RCRSCA237WJQZY	AD		J	Crystal
X4401	RCRSCA237WJQZY	AD		J	Crystal
X9502	RCRSCA238WJQZY	AD		J	Crystal
[3] DUNTKF494FM02 (R/C OPC Unit)					
C101	VCKYCY1HB103KY	AA		J	Capacitor 0.01 50V Ceramic
C103	RC-KZA385WJZZY	AD		J	Capacitor 22 6.3V Ceramic
C104	RC-KZA385WJZZY	AD		J	Capacitor 22 6.3V Ceramic
C105	RC-KZA616WJQZY	AB		J	Capacitor 10 10V Ceramic
D104	RH-EXA633WJQZY	AA		J	Zener Diode RKZ5.6B2KG
IC101	VHiGA1S100W-1Y	AE		J	IC GA1A1S100WP
P103	QPLGNA325WJZZY	AC		J	Plug
R106	VRS-CY1JF223JY	AA		J	Resistor 22k 1/16W Metal Oxide
R113	VRS-CY1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R120	VRS-CY1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
RMC101	RRMCUA053WJZZ	AE		J	Remote Receiver
SLD101	PSLDPA076WJFW	AD		J	Shield
[4] DUNTKF770FM51 (ICON Unit)					
D201	RH-PXA207WJZZY	AE	N	J	LED CL-194S-HB8-SD-T
D202	RH-PXA207WJZZY	AE	N	J	LED CL-194S-HB8-SD-T
D203	RH-PXA207WJZZY	AE	N	J	LED CL-194S-HB8-SD-T
D204	RH-PXA189WJPZY	AD		J	LED NESW156T
D205	RH-PXA189WJPZY	AD		J	LED NESW156T
P202	QPLGNA323WJZZY	AC		J	Plug
R201	VRS-TV1JD131JY	AA		J	Resistor 130 1/10W Metal Oxide
R202	VRS-TV1JD131JY	AA		J	Resistor 130 1/10W Metal Oxide
R203	VRS-TV1JD131JY	AA		J	Resistor 130 1/10W Metal Oxide
R204	VRS-TV1JD131JY	AA		J	Resistor 130 1/10W Metal Oxide
R205	VRS-TV1JD131JY	AA		J	Resistor 130 1/10W Metal Oxide

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Aug. 2011
SH. DS

SHARP CORPORATION
AV Systems Group
CS Promotion Center
Yaita,Tochigi 329-2193, Japan

SHARP SERVICE MANUAL

No. S81T352LE830E

LCD COLOUR TELEVISION

LCD Module Edition

MODELS

LC-52/60LE830E/RU/E[B]/RU[B]
LC-52/60LE831E/S/E[B]/S[B]
LC-52/60LE833E/E[B]
LC-60LE635E/RU
LC-60LE636E/S
LC-60LE638E

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

CONTENTS

OUTLINE **Parts Guide**

CHAPTER 1. Removing LCD Module
[1] Removing LCD Module (LC-52LE835E/RU,831E/S,833E)..... 1-1
[2] Removing LCD Module (LC-60LE835E/RU/E[B]/RU[B],831E/S/E[B]/S[B],833E/E[B],60LE635E/RU,636E/S,638E)..... 1-2

Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

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OUTLINE

- **Information of service parts in the LCD Module**

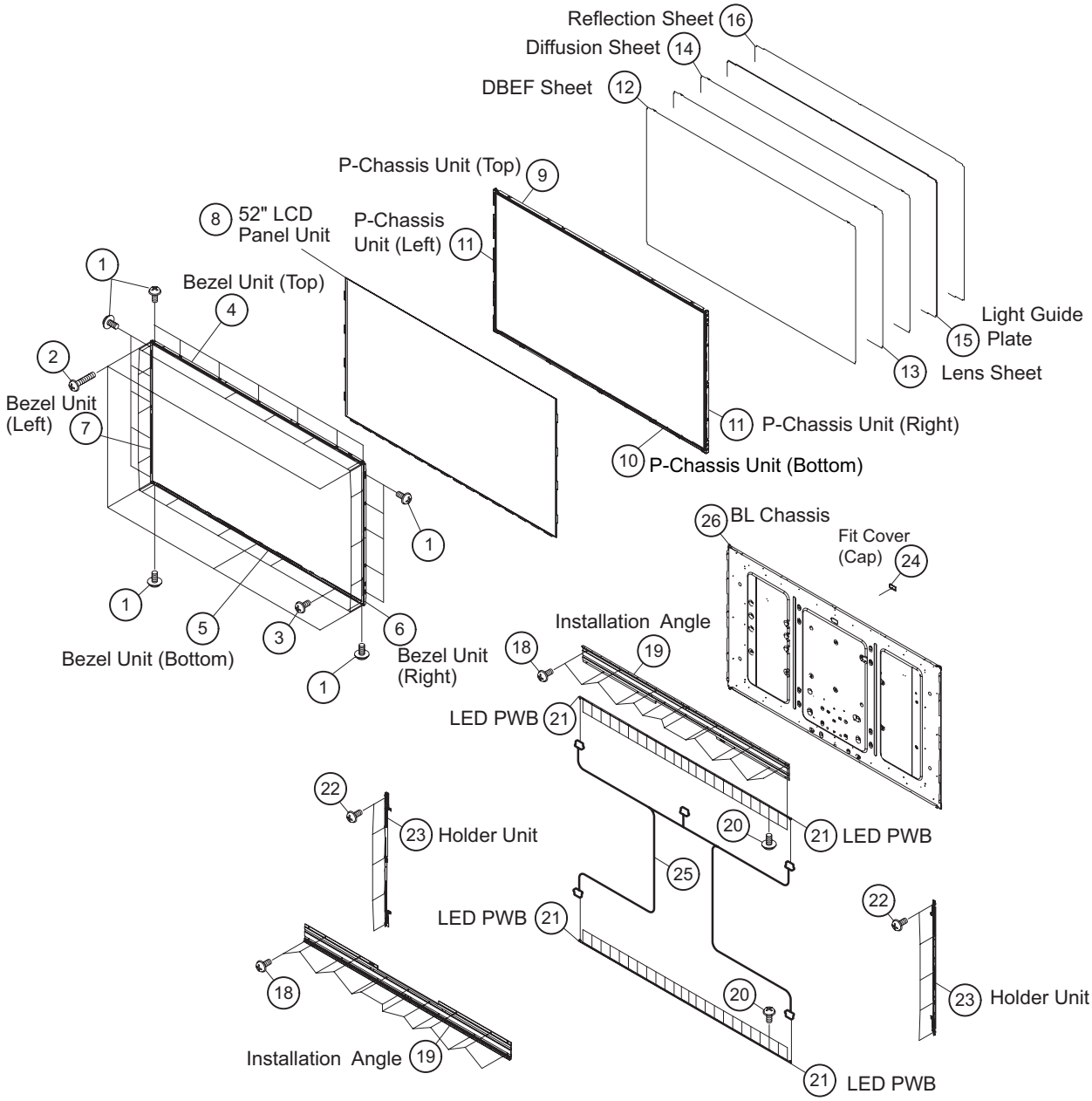
Unit

Model Name	Unit Name	Description
LC-52LE830E/RU,831E/S,833E	R1LK520D3GW40P	52" LCD Panel Module Unit (LK520D3GW40P)
LC-52LE830E[B]/RU[B],831E[B]/S[B],833E[B]	R1LK520D3GW4BY	52" LCD Panel Module Unit (LK520D3GW4BY)
LC-60LE830E/RU,831E/S,833E	R1LK600D3GW40H	60" LCD Panel Module Unit (LK600D3GW40H)
LC-60LE830E[B]/RU[B],831E[B]/S[B],833E[B]	R1LK600D3GW4BH	60" LCD Panel Module Unit (LK600D3GW4BH)
LC-60LE635E/RU,636E/S,638E	R1LK600D3GW7CH	60" LCD Panel Module Unit (LK600D3GW7CH)

CHAPTER 1. Removing LCD Module

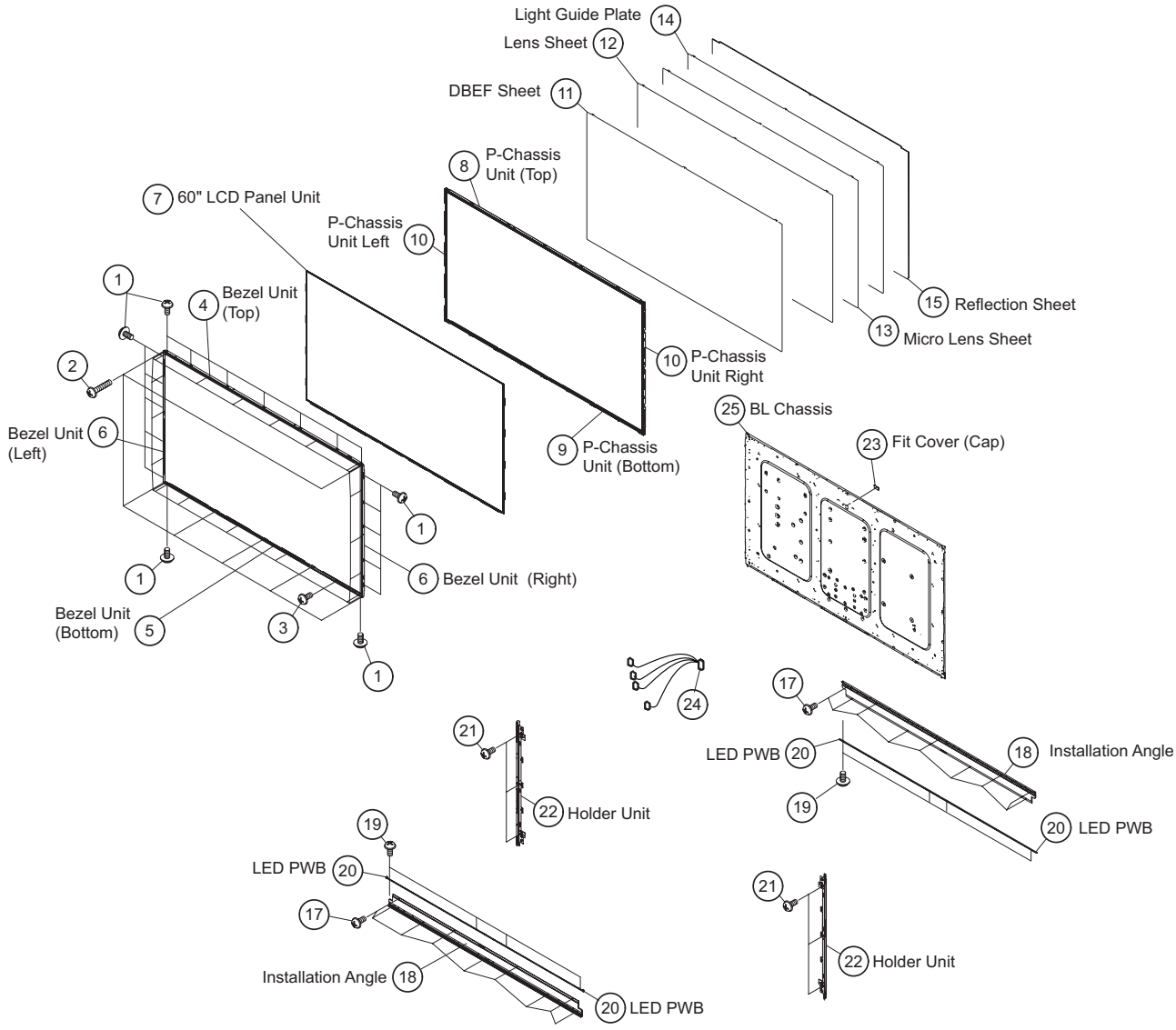
[1] Removing LCD Module (LC-52LE835E/RU,831E/S,833E)

1. Remove the 19 lock screws ①, 5 lock screws ②, 21 lock screws ③ and detach the Bezel Unit (Top) ④, Bezel Unit (Bottom) ⑤, Bezel Unit (Right) ⑥, Bezel Unit (Left) ⑦.
2. Detach the 52” LCD Panel Unit ⑧, P-Chassis (Top) ⑨, P-Chassis (Bottom) ⑩, 2 P-Chassis (Left/Right) ⑪.
3. Detach the DBEF Sheet ⑫, Lens Sheets ⑬, Diffusion Sheets ⑭, Light Guide Plate ⑮, Reflection Sheet ⑯.
4. Remove the 28 lock screws ⑱, and detach the 2 Installation Angle ⑲.
5. Remove the 48 lock screws ⑳, and detach the 4 LED PWB ㉑.
6. Remove the 10 lock screws ㉒, and detach the 2 Holder Unit ㉓.
7. Detach the Fit Cover (Cap) ㉔, and Disconnect the LED PWB Connection Harness ㉕.
8. Detach the BL Chassis ㉖ .



[2] Removing LCD Module (LC-60LE835E/RU/E[B]/RU[B],831E/S/E[B]/S[B],833E/E[B],60LE635E/RU,636E/S,638E)

1. Remove the 19 lock screws ①, 7 lock screws ②, 22 lock screws ③ and detach the Bezel Unit (Top) ④, Bezel Unit (Bottom) ⑤, Bezel Unit (Right/Left) ⑥.
2. Detach the 60” LCD Panel Unit ⑦, P-Chassis (Top) ⑧, P-Chassis (Bottom) ⑨, 2 P-Chassis (Right/Left) ⑩.
3. Detach the DBEF Sheet ⑪, Lens Sheets ⑫, Micro Lens Sheets ⑬, Light Guide Plate ⑭, Reflection Sheet ⑮.
4. Remove the 18 lock screws ⑰, and detach the 2 Installation Angle ⑱.
5. Remove the 8 lock screws ⑲, and detach the 4 LED PWB ⑳.
6. Remove the 6 lock screws ㉑, and detach the 2 Holder Unit ㉒.
7. Detach the Fit Cover (Cap) ㉓, and Disconnect the LED PWB Connection Harness ㉔.
8. Detach the BL Chassis ㉕ .



SHARP PARTS GUIDE

No. S81T352LE830E

LCD COLOUR TELEVISION

MODELS

LC-52/60LE830E/RU/E[B]/RU[B]
LC-52/60LE831E/S/E[B]/S[B]
LC-52/60LE833E/E[B]
LC-60LE635E/RU
LC-60LE636E/S
LC-60LE638E

CONTENTS

[1] LCD PANEL MODULE UNIT (LC-52LE830E/RU/E[B}/RU[B],831E/S/E[B]/S[B],833E/E[B])

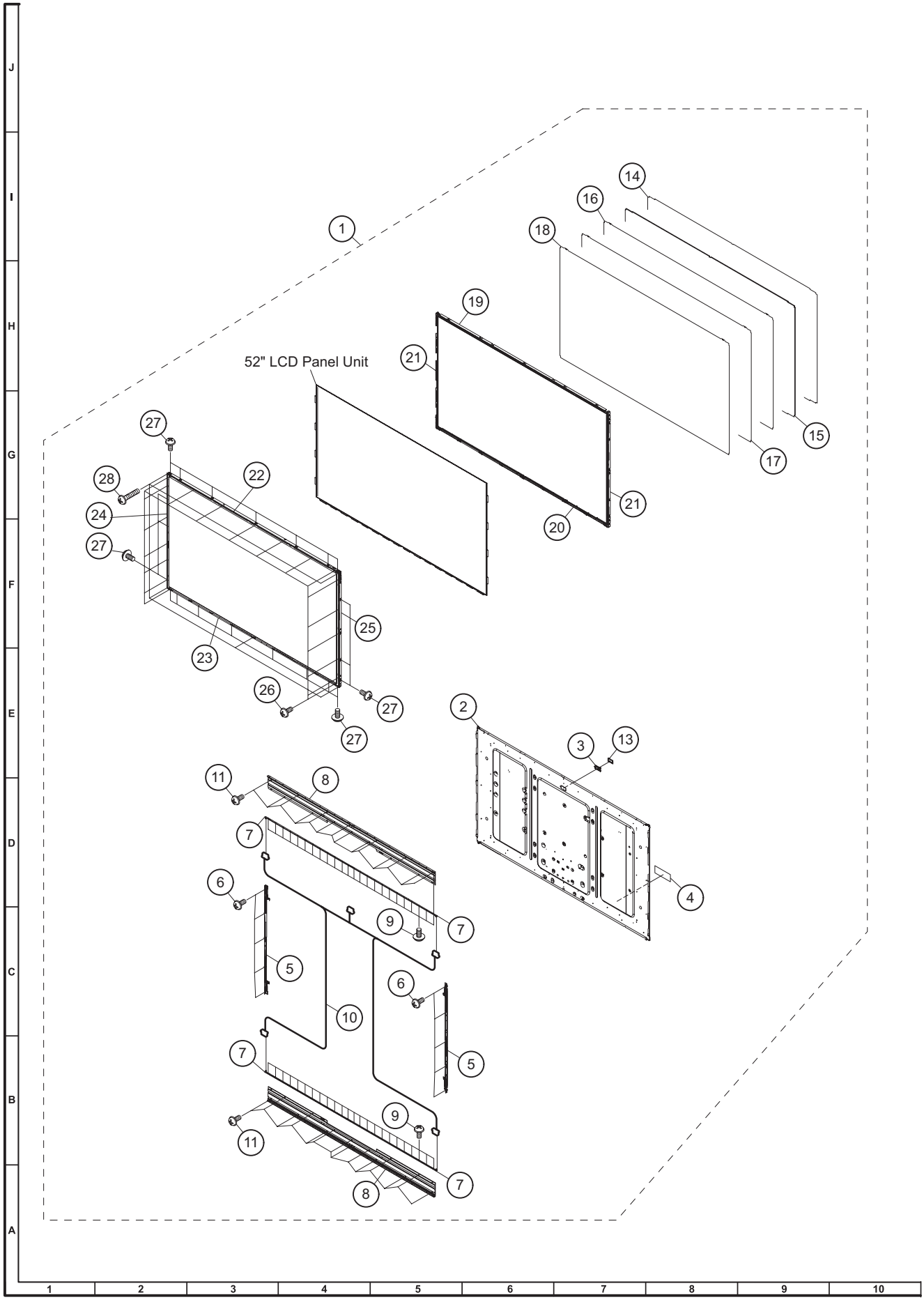
[2] LCD PANEL MODULE UNIT (LC-60LE830E/RU/E[B]/RU[B],831E/S/E[B]/S[B],833E/E[B]/60LE635E/RU,636E/S,638E)

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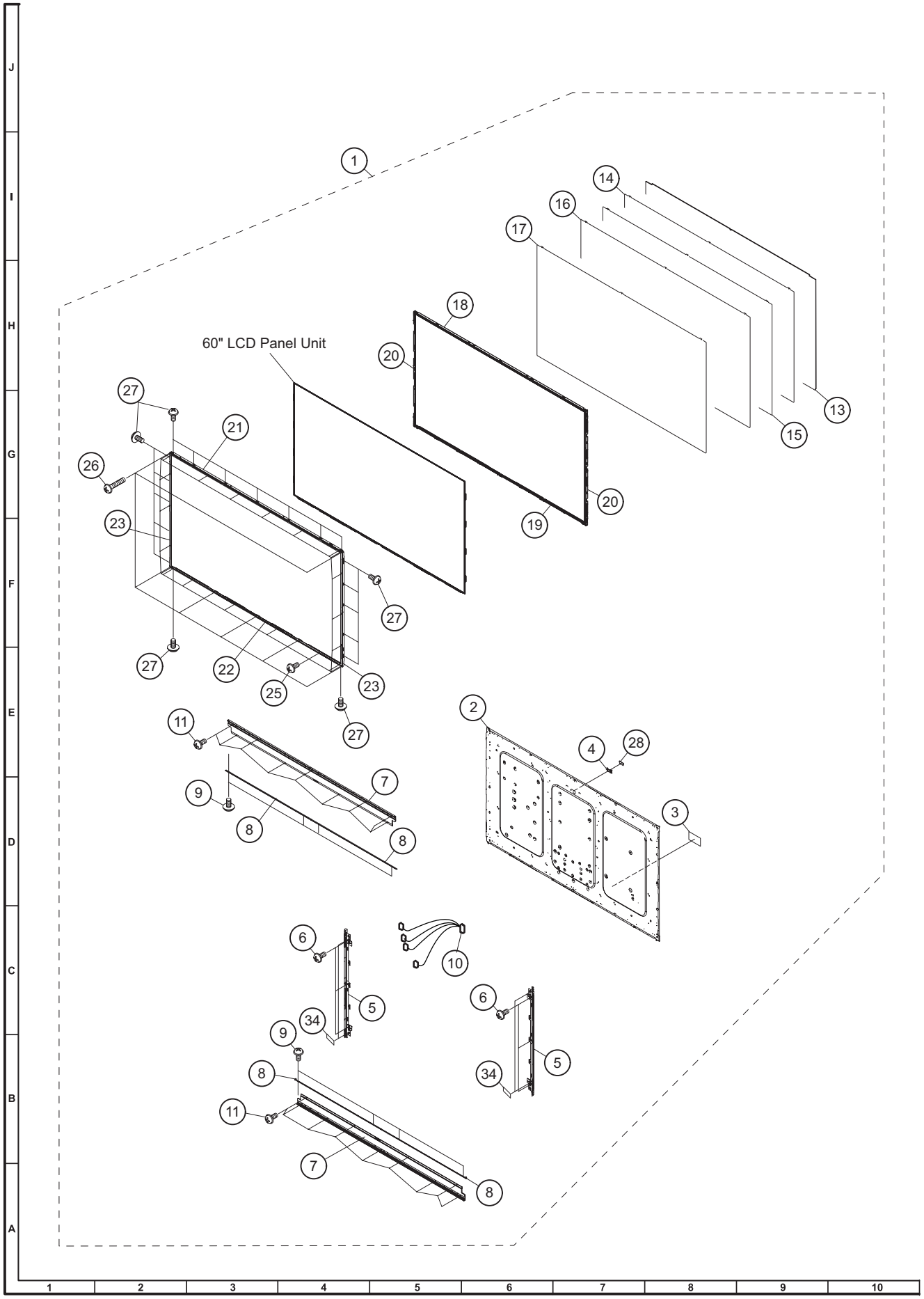
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[1] LCD PANEL MODULE UNIT (LC-52LE830E/RU/E[B}/RU[B],831E/S/E[B]/S[B],833E/E[B])



NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[1] LCD PANEL MODULE UNIT (LC-52LE830E/RU/E[B}/RU[B],831E/S/E[B]/S[B],833E/E[B])					
1	R1LK520D3GW40P		N	P	52" LCD Panel Module Unit (LK520D3GW40P) (LC-52LE830E/RU,831E/S,833E)
1	R1LK520D3GW4BY		N	P	52" LCD Panel Module Unit (LK520D3GW4BY) (LC-52LE830E[B}/RU[B],831E[B]/S[B],833E[B])
2	CCHSM0331TP03			J	BL Chassis
3	PCOVP2986TPZZ	AB		J	Fit Cover (Base)
4	ZLABL2018TPZZ	AD		J	BL Label
5	CHLDZ4800TP02	AP		J	Holder Unit, x2
6	LX-BZ2568TPZZ	AA		J	Screw, x10
7	RUNTK4831TPZZ	BD		J	LED PWB, x4 (LC-52LE830E/RU,831E/S,833E)
7	RUNTK4989TPZZ	BC		J	LED PWB, x4 (LC-52LE830E[B}/RU[B],831E[B]/S[B],833E[B])
8	CANGT0342TP01	BA		J	Installation Angle, x2
9	LX-HZ2417TPZZ	AA		J	Screw, x48
10	QCNWN2672TPZZ	AR		J	LED PWB Connection Harness
11	LX-HZ2414TPZZ	AA		J	Screw, x28
13	PCOVP2989TPZZ	AB		J	Fit Cover (Cap)
14	PREFL3360TPZZ	AX		J	Reflection Sheet
15	PLGPA0787TPZZ	BN		J	Light Guide Plate
16	PSLDK3608TPZZ	BB		J	Micro Lens Sheet
17	POFMA1278TPZZ	AY		J	Lens Sheet
18	POFMD0618TPZZ	BQ		J	DBEF Sheet
19	CHLDZ4796TP09			J	P-Chassis Unit (Top)
20	CHLDZ4797TP05			J	P-Chassis Unit (Bottom)
21	CHLDZ4798TP01	AL		J	P-Chassis Unit (Left/Right), x2
22	CANGK4934TP05			J	Bezel Unit (Top)
23	CANGK4935TP0C			J	Bezel Unit (Bottom)
24	CANGK4936TP06			J	Bezel Unit (Left)
25	CANGK4937TP06			J	Bezel Unit (Right)
26	LX-UZ2067TPZZ	AB		J	Screw, x21
27	LX-BZ2568TPZZ	AA		J	Screw, x19
28	LX-BZ2574TPZZ	AA		J	Screw, x5

[2] LCD PANEL MODULE UNIT (LC-60LE830E/RU/E[B]/RU[B],831E/S/E[B]/S[B],833E/E[B]/60LE635E/RU,636E/S,638E)



NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[2] LCD PANEL MODULE UNIT (LC-60LE830E/RU/E[B]/RU[B],831E/S/E[B]/S[B],833E/E[B]/60LE635E/RU,636E/S,638E)					
1	R1LK600D3GW40H		N	P	60" LCD Panel Module Unit (LK600D3GW40H) (LC-60LE830E/RU,831E/S,833E)
1	R1LK600D3GW4BH		N	P	60" LCD Panel Module Unit (LK600D3GW4BH) (LC-60LE830E[B]/RU[B],831E[B]/S[B],833E[B])
1	R1LK600D3GW7CH		N	P	60" LCD Panel Module Unit (LK600D3GW7CH) (LC-60LE635E/RU,636E/S,638E)
2	CCHSM0132TP01	BS		J	BL Chassis
3	ZLABL2018TPZZ	AD		J	BL Label
4	PCOVP2986TPZZ	AB		J	Fit Cover (Base)
5	CHLDZ4605TP01	AT		J	Holder Unit, x2
6	LX-HZ2414TPZZ	AA		J	Screw, x6
7	CANGT0136TP01	BC		J	Installation Angle, x2
8	RUNTK4830TPZZ	BG		J	LED PWB , x4 (LC-60LE830E/RU,831E/S,833E)
8	RUNTK5028TPZZ	BD		J	LED PWB , x4 (LC-60LE830E[B]/RU[B],831E[B]/S[B],833E[B])
8	RUNTK5032TPZZ	BH		J	LED PWB , x4 (LC-60LE635E/RU,636E/S,638E)
9	LX-HZ2417TPZZ	AA		J	Screw, x8
10	QCNWN2671TPZZ	AR		J	LED PWB Connection Harness
11	LX-HZ2414TPZZ	AA		J	Screw, x18
13	PREFL3387TPZZ			J	Reflection Sheet
14	PLGPA0786TPZZ	BR		J	Light Guide Plate
15	PSLDK3607TPZZ	BF		J	Micro Lens Sheet
16	POFMA1279TPZZ	BA		J	Lens Sheet
17	POFMD0649TPZZ	BS		J	DBEF Sheet (LC-60LE830E/RU/E[B]/RU[B],831E/S/E[B]/S[B],833E/E[B])
17	PSLDK3521TPZZ	BF		J	Diffusion Sheet (LC-60LE635E/RU,636E/S,638E)
18	CHLDZ4601TP0A			J	P-Chassis Unit (Top) (LC-60LE830E/RU/E[B]/RU[B],831E/S/E[B]/S[B],833E/E[B])
18	CHLDZ4601TP09			J	P-Chassis Unit (Top) (LC-60LE635E/RU,636E/S,638E)
19	CHLDZ4602TP0D			J	P-Chassis Unit (Bottom) (LC-60LE830E/RU/E[B]/RU[B],831E/S/E[B]/S[B],833E/E[B])
19	CHLDZ4602TP0C			J	P-Chassis Unit (Bottom) (LC-60LE635E/RU,636E/S,638E)
20	CHLDZ4603TP02	AQ		J	P-Chassis Unit (Left/Right), x2 (LC-60LE830E/RU/E[B]/RU[B],831E/S/E[B]/S[B],833E/E[B])
20	CHLDZ4603TP03	AW		J	P-Chassis Unit (Left/Right), x2 (LC-60LE635E/RU,636E/S,638E)
21	CANGK4749TP03			J	Bezel Unit (Top) (LC-60LE830E/RU/E[B]/RU[B],831E/S/E[B]/S[B],833E/E[B])
21	CANGK4748TP03	AS		J	Bezel Unit (Top) (LC-60LE635E/RU,636E/S,638E)
22	CANGK4749TP0A			J	Bezel Unit (Bottom) (LC-60LE830E/RU/E[B]/RU[B],831E/S/E[B]/S[B],833E/E[B])
22	CANGK4749TP09	AX		J	Bezel Unit (Bottom) (LC-60LE635E/RU,636E/S,638E)
23	CANGK4749TP03			J	Bezel Unit (Left/Right), x2 (LC-60LE830E/RU/E[B]/RU[B],831E/S/E[B]/S[B],833E/E[B])
23	CANGK4750TP03	AQ		J	Bezel Unit (Left), x2 (LC-60LE635E/RU,636E/S,638E)
23	CANGK4751TP03	AQ		J	Bezel Unit (Right), x2 (LC-60LE635E/RU,636E/S,638E)
25	LX-UZ2067TPZZ	AB		J	Screw, x22
26	LX-HZ2574TPZZ			J	Screw, x7
27	LX-HZ2568TPZZ			J	Screw, x19
28	PCOVP2989TPZZ	AB		J	Fit Cover (Cap)
34	PSPAG1054TPZZ			J	Spacer, x4

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Nov. 2011
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